

738-16

**SUPERIOR**  
SWITCHBOARD & DEVICES CO.

# Good Panelboard Practice

*The Superior*  
Switchboard & Devices Company  
Canton, Ohio



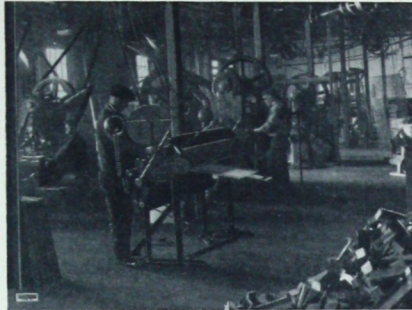




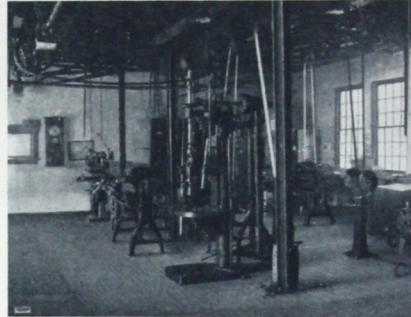
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# SUPERIOR SWITCHBOARD & DEVICES CO.

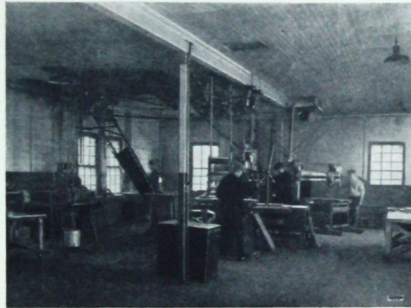
## Where Superior Products are Made



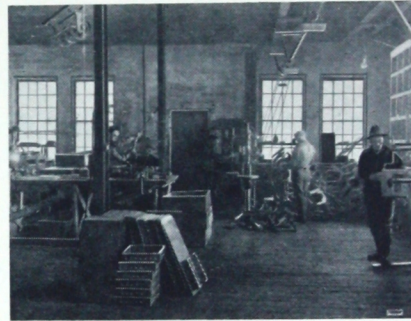
Stamping Dept.



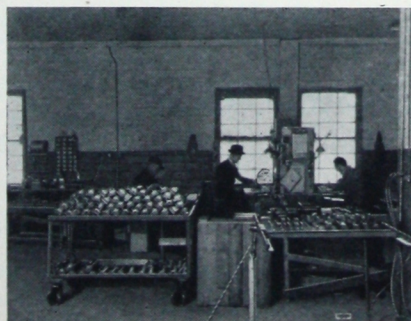
A Corner of the Tool and Die Dept.



Slate Fabricating Dept.



Sheet Metal Dept.



Switch Assembly



Shipping Dept.

FRANKLIN  
INSTITUTE  
LIBRARY

10 90-B6624 TCF



# GOOD PANELBOARD PRACTICE

*Describing the*

SWITCHBOARDS FOR POWER

SWITCHBOARDS FOR LIGHT

SWITCHBOARDS FOR STAGE LIGHTING

LIGHTING PANELBOARDS AND CABINETS (Dead Front Type)

LIGHTING PANELBOARDS AND CABINETS (Live Front Type)

METERING PANELS

FEEDER DISTRIBUTION PANELS (Dead Front Type)

FEEDER DISTRIBUTION PANELS (Live Front Type)

STEEL CABINETS

STEEL PULL BOXES

GUTTERED TYPE STEEL CABINETS

*that are manufactured by*

**The Superior Switchboard and Devices Co.**

Home Office and Factory, Canton, Ohio

DISTRICT OFFICES

DETROIT

INDIANAPOLIS

PITTSBURGH

BALTIMORE



## Lighting Panelboard Specifications

### *Slate Bases*

Panelboard Bases are made of black marine finished electrical tested slate 1" thick, free from flaws or metallic veins.

### *Slate Barriers*

Slate Barriers are made of black marine finished electrical tested slate  $\frac{1}{2}$ " thick, free from flaws or metallic veins. They are slotted for main and branch circuits.

### *Main Bus Bars*

Main Bus Bars are made of best quality hard drawn copper of not less than 98% conductivity. They are furnished in polished finish for live front panels and in satin finish for dead front panels.

### *Branch Bus Bars*

Branch Bus Bars are stamped from best quality hard drawn copper, of not less than 98% conductivity. They are furnished in polished finish for live front panels and in satin finish for dead front panels and are of a minimum capacity of 30 amperes.

### *Spacings*

All spacings conform to the latest rules of The National Board of Fire Underwriters.

### *Current Densities*

All main and branch bus bars are based on a carrying capacity of 1000 amperes per square inch.

### *Fuse Clips and Switch Jaws*

Fuse Clips and Switch Jaws of 30 ampere capacity are stamped from metal having special spring retaining characteristics.

### *Circuit Switches—Knife Type*

Knife Type Circuit Switches are of 30 ampere capacity, with composition spool handles.

### *Circuit Switches—Tumbler Type*

Tumbler Type Circuit Switches are of 30 ampere, 125 volt and 20 ampere, 250 volt capacity. They are designed with positive acting, quick make and break mechanisms.

### *Main Switches—Knife Type*

Main Knife Switches are of type A, milled clip design. All panels that are 3-2 wire with fused, main knife switches are furnished with solid neutral straps in the mains.

### *Main Switches—Brush Type*

Brush Type Main Switches have laminated brush contacts. They are of the toggle-lock type with non-retardable, quick break, double break action. Brushes give a wiping contact when closed and are fitted with a secondary, contact tip. All 3-2 wire panelboards calling for brush type switches are fitted with 2 pole switches, the neutral being run through solid.

### *Edison Type Branch Fuse Receptacles*

Edison Type Branch Fuse Receptacles are of heavy, insulating material and are fitted with heavy, current carrying parts.

### *Sectional Safety Plates*

Sectional Safety Plates are stamped from special metal. They are marine finished and have card holders stamped in them. Any sectional safety plate can be removed from the front of a dead front panelboard without removing adjacent ones.

### *Adjustable Corner Irons*

Corner Irons are stamped from steel and finished in a baked enamel. The corner iron supports both the panel and barrier and allows for adjustment if the panelboard tub is not plumb in or on the wall.

### *Adjustable Trim Clamps*

Trim Clamps are provided on type DD and NL steel fronts. They permit a wide range of adjustment if the panelboard tub is not plumb in or on the wall.



## IMPORTANT

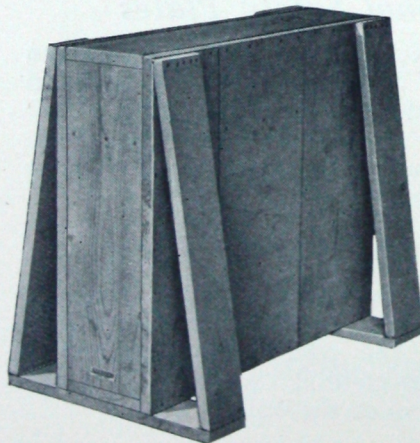
Time, money and annoyance will be saved if the following instructions are carefully observed.

1. Order by catalogue number whenever possible.
2. Specify type of cabinet wanted, whether for flush or surface mounting.
3. Give full shipping and billing instructions. Goods will be shipped by freight unless otherwise specified or unless shipment weighs less than 100 pounds, when they will be shipped cheapest way by parcel post, express or freight.
4. All material we manufacture is carefully packed and crated and leaves these works in good condition. We cannot be held responsible for shortages, or apparent or concealed damage incurred in shipment.
5. If goods are not as ordered we should be advised immediately. We will not be responsible for any expense for changes made on material we manufacture unless authorized by our home office.
6. No orders are cancellable or subject to change after entering our books, without our written consent. A reasonable charge will be made to cover engineering or manufacturing any orders cancelled or changed.

We manufacture to your order and since your order is our only source of information as to your requirements, please write it **complete**.

### *Prices and Quotations*

All list prices in this book supersede all previous lists. All quotations whether written or verbal and list prices are subject to change without notice. Quotations are subject to conditions beyond our control and to approval by the home office.



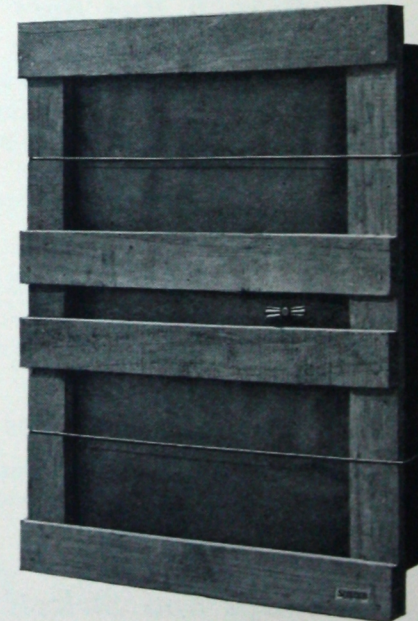
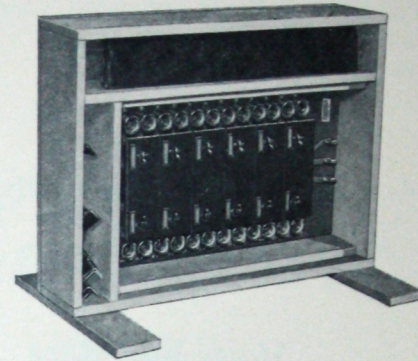
Panelboards together with their corner irons and barriers are crated as shown above.

### *Terms of Payment*

All terms of payment are 2%—10—30 days net, f. o. b. cars, Canton, Ohio.

### *Crating and Packing*

These two important items can be either source of satisfaction or annoyance to a customer. Panelboards with their slate barriers and corner irons are assembled in one crate. This crate is so constructed that the carrier is compelled to handle it in an upright position. Due to careful and proper crating and packing, our breakage is practically negligible.



Panelboard cabinets are crated as illustrated above.



## Panelboard Cabinet Specifications

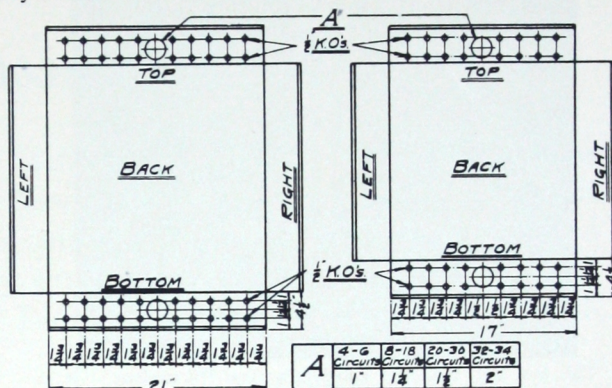
Panelboard cabinets of our manufacture are divided into two classes. First the type NL cabinet that is used mostly on live front panelboards, such as the types C, E, KC and KE. Second the type DD double door cabinet that is used only on the dead front panelboards, such as the type TC and TE.

### Steel Boxes or Tubs

Steel tubs are of the same design whether for flush or surface mounting and whether for type NL or DD fronts. They are die-cut from one piece of steel and are very carefully made.

### Standard Knockouts

Each tub is furnished with standard knockouts as indicated by the sketches adjoining. These  $\frac{1}{2}$ " KO's are spaced for  $\frac{3}{4}$ " conduit centers. Additional feeder conduit knockouts will be punched in the top and bottom centers if directions accompany the order. Any deviation from these standard knockouts or if feeder conduit knockouts are requested after order has been entered in our factory will be charged for at the rate of \$1.00 per box net.



### Type NL Steel Fronts

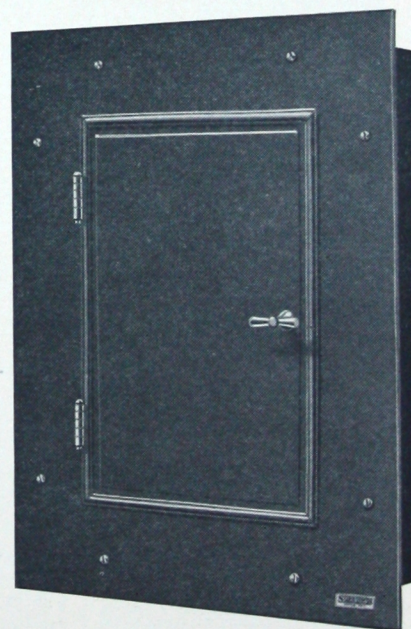
Type NL, or single door, steel fronts are used chiefly on live front panels but can be used on dead front panels if desired although the purpose of the dead front panel is defeated by such practice. These fronts are made of heavy gauge furniture steel and are die-cut from one piece stock. Each front is furnished with concealed loose pin hinges and all die kerfs are covered with an ornamental molding that serves as a rabbet for the door to close against the trim. Type NL cabinet fronts have a vault handle with a turn catch as standard equipment. A lock can be furnished at an increase in list price of \$2.50 each. The door to a type NL front allows complete access to any part of the panelboard that is enclosed within the barriers.



Type NL steel fronts are furnished in a very fine glossy black enameled finish that is carefully applied and baked on.

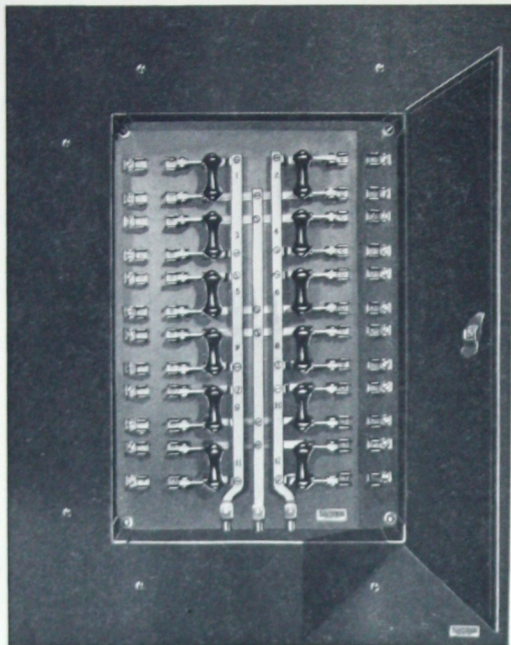
### Type DD Steel Fronts

DD steel fronts, or door within a door type, are used only on dead front panels. They are made of the same material and in the same manner as the type NL fronts, except that an additional smaller door is cut in the larger door. This smaller door allows access only to the operating handles of the branch circuit switches and a steel strip that telescopes over the sectional safety plates of the panelboard prevents unauthorized persons from reaching current carrying parts. The larger door is always equipped with a lock. This door allows complete access to any part of the panelboard that is enclosed within the barriers.

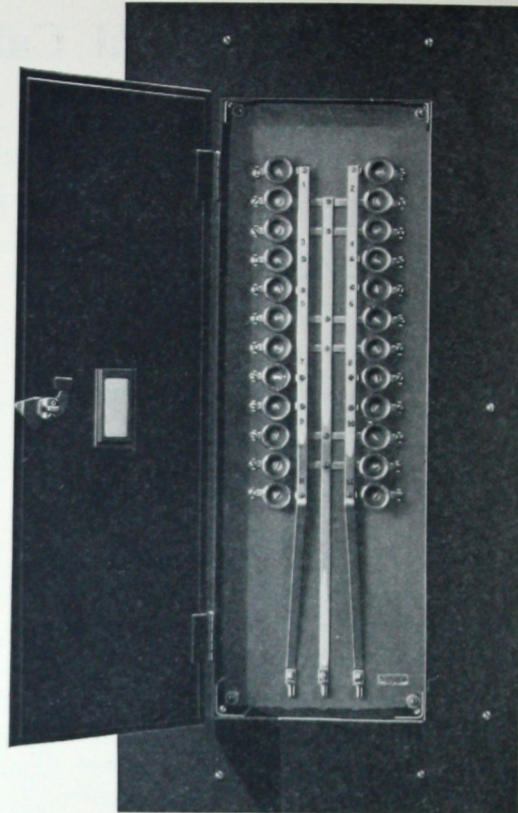


Type DD steel fronts are furnished in a very fine black enameled finish that is carefully applied and then baked on.

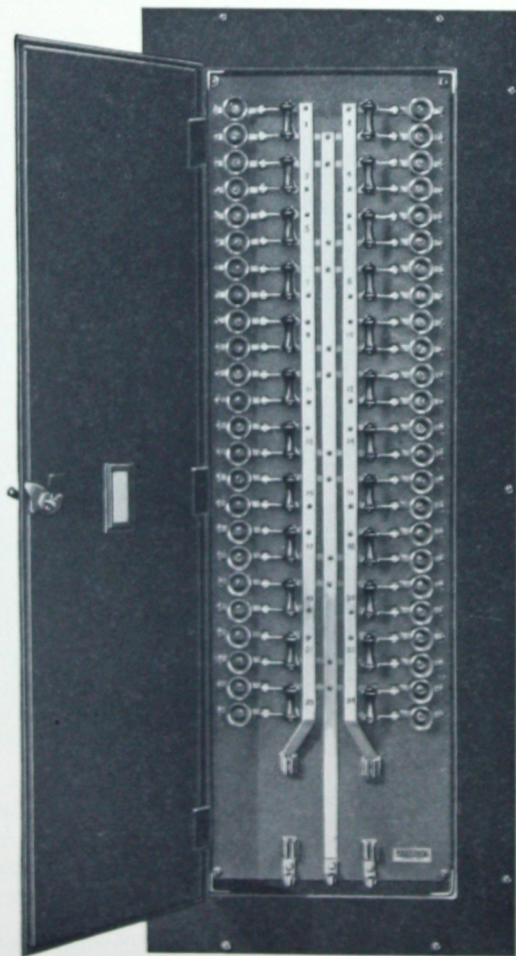




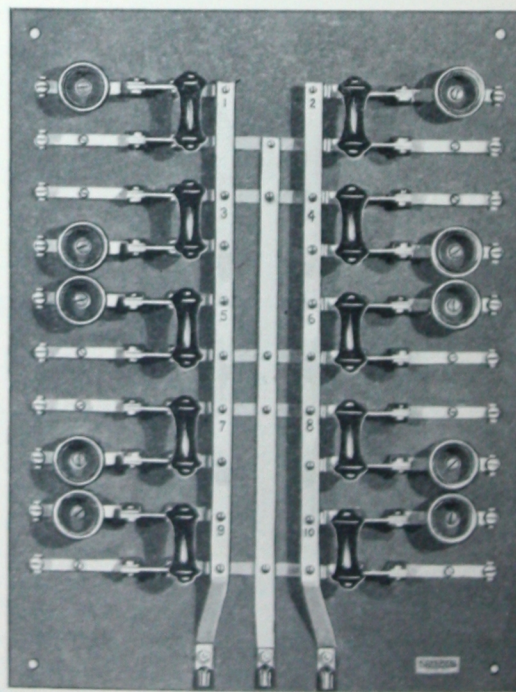
This is a Cat. No. 9012 panel in a type NL cabinet. It is listed and described on page 13 of this book.



A Cat. No. 7012 panel in a type NL cabinet is illustrated above. This panel is described and listed on page 11 of this book.



The Cat. No. 11124 panel with type NL cabinet illustrated above is described and listed on page 15 of this book.



This photograph illustrates a panelboard having double pole branch switches and single pole branch fuses, with neutrals solid. We are in a position to furnish solid neutral bus bars in the branches of lighting panelboards as illustrated above at no additional cost provided this specification accompanies order. This saves one-half of the branch fuses in an installation.



## Live Front Panelboards and Cabinets



LIVE Front Panelboards are primarily designed for use in locations where it is not often necessary to operate the branch circuit switches. Where branch circuit switches on a panelboard are used a great deal, especially by untrained operators, we recommend dead front type panelboards. Live Front Panelboards are furnished with type NL cabinets only.

### SPECIFICATIONS

PANELS: 1" black marine finish slate.  
BARRIERS: 1/2" black marine finish slate, with adjustable corner supports.  
BOX: Guttered Type Code Gauge Steel.  
FRONT: Highly finished Code Gauge Steel, Flush or Surface.  
KNOCKOUTS: For standard knockouts see page 5.



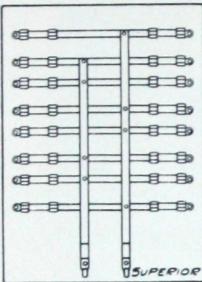
## Live Front Panelboards and Cabinets

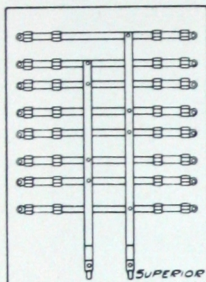
2 Wire Mains. 2 Wire Branches.

**Type C2—125 Volt**

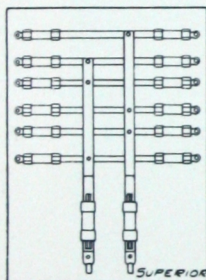
BRANCHES: Double pole with 30 amp. cartridge fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes
			Wide	High	Deep	
MAIN LUGS ONLY						
4	4004	\$26.00	17	17	4½	48
6	4006	28.00	17	20	4½	66
8	4008	31.00	17	23	4½	84
10	4010	34.00	17	26	4½	100
12	4012	39.00	17	29	4½	116
14	4014	43.00	17	32	4½	132
16	4016	46.00	17	35	4½	144
18	4018	49.00	17	38	4½	154
20	4020	52.00	17	38	4½	162
22	4022	59.00	17	41	4½	170
24	4024	62.00	17	44	4½	176
26	4026	65.00	17	47	4½	182
28	4028	69.00	17	50	4½	188
30	4030	73.00	17	53	4½	194
32	4032	76.00	17	53	4½	200

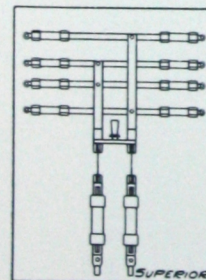




FUSES IN MAINS						
4	<b>4104</b>	<b>\$28.00</b>	17	20	4½	60
6	<b>4106</b>	<b>33.00</b>	17	26	4½	100
8	<b>4108</b>	<b>36.00</b>	17	29	4½	100
10	<b>4110</b>	<b>40.00</b>	17	32	4½	100
12	<b>4112</b>	<b>49.00</b>	17	38	4½	200
14	<b>4114</b>	<b>52.00</b>	17	41	4½	200
16	<b>4116</b>	<b>55.00</b>	17	44	4½	200
18	<b>4118</b>	<b>59.00</b>	17	44	4½	200
20	<b>4120</b>	<b>62.00</b>	17	47	4½	200
22	<b>4122</b>	<b>66.00</b>	17	50	4½	200
24	<b>4124</b>	<b>69.00</b>	17	53	4½	200
26	<b>4126</b>	<b>73.00</b>	17	56	4½	200
28	<b>4128</b>	<b>77.00</b>	17	59	4½	200
30	<b>4130</b>	<b>80.00</b>	17	62	4½	200
32	<b>4132</b>	<b>84.00</b>	17	65	4½	200



FUSED SWITCH IN MAINS						
4	<b>4304</b>	<b>\$35.00</b>	17	26	4½	60
6	<b>4306</b>	<b>40.00</b>	17	32	4½	100
8	<b>4308</b>	<b>44.00</b>	17	35	4½	100
10	<b>4310</b>	<b>46.00</b>	17	38	4½	100
12	<b>4312</b>	<b>65.00</b>	17	44	5¼	200
14	<b>4314</b>	<b>72.00</b>	17	47	5¼	200
16	<b>4316</b>	<b>75.00</b>	17	50	5¼	200
18	<b>4318</b>	<b>77.00</b>	17	53	5¼	200
20	<b>4320</b>	<b>81.00</b>	17	56	5¼	200
22	<b>4322</b>	<b>84.00</b>	17	59	5¼	200
24	<b>4324</b>	<b>88.00</b>	17	62	5¼	200
26	<b>4326</b>	<b>91.00</b>	17	65	5¼	200
28	<b>4328</b>	<b>96.00</b>	17	65	5¼	200
30	<b>4330</b>	<b>99.00</b>	17	68	5¼	200
32	<b>4332</b>	<b>103.00</b>	17	71	5¼	200



Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5. For panels with 250 volt branches add 20%.

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**

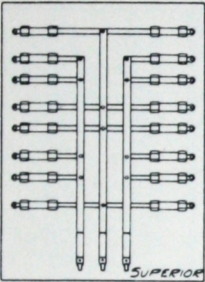
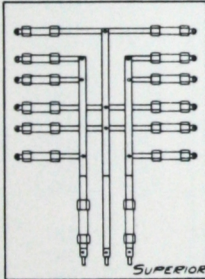
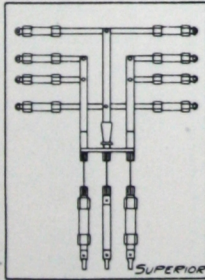


## Live Front Panelboards and Cabinets

3 Wire Mains. 2 Wire Branches.

**Type C3—125-250 Volt**

BRANCHES: Double pole with 30 amp. cartridge fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
			Wide	High	Deep		
MAIN LUGS ONLY							
	4	5004	\$25.00	17	17	4 1/2	24
	6	5006	30.00	17	20	4 1/2	33
	8	5008	34.00	17	23	4 1/2	42
	10	5010	37.00	17	26	4 1/2	50
	12	5012	39.00	17	29	4 1/2	58
	14	5014	44.00	17	32	4 1/2	66
	16	5016	48.00	17	32	4 1/2	72
	18	5018	51.00	17	35	4 1/2	77
	20	5020	55.00	17	38	4 1/2	81
	22	5022	61.00	17	41	4 1/2	85
	24	5024	64.00	17	44	4 1/2	88
	26	5026	69.00	17	47	4 1/2	91
	28	5028	72.00	17	50	4 1/2	94
	30	5030	76.00	17	53	4 1/2	97
	32	5032	79.00	17	53	4 1/2	100
FUSES IN MAINS							
	4	5104	\$28.00	17	20	4 1/2	30
	6	5106	34.00	17	23	4 1/2	60
	8	5108	37.00	17	26	4 1/2	60
	10	5110	41.00	17	29	4 1/2	60
	12	5112	44.00	17	32	4 1/2	60
	14	5114	50.00	17	38	4 1/2	100
	16	5116	54.00	17	41	4 1/2	100
	18	5118	57.00	17	44	4 1/2	100
	20	5120	63.00	17	47	4 1/2	100
	22	5122	68.00	17	50	4 1/2	100
	24	5124	71.00	17	50	4 1/2	100
	26	5126	75.00	17	53	4 1/2	100
	28	5128	78.00	17	56	4 1/2	100
	30	5130	83.00	17	59	4 1/2	100
	32	5132	86.00	17	62	4 1/2	100
FUSED SWITCH IN MAINS							
	4	5304	\$36.00	17	23	4 1/2	30
	6	5306	43.00	17	29	4 1/2	60
	8	5308	47.00	17	32	4 1/2	60
	10	5310	50.00	17	35	4 1/2	60
	12	5312	53.00	17	38	4 1/2	60
	14	5314	60.00	17	44	4 1/2	100
	16	5316	64.00	17	47	4 1/2	100
	18	5318	70.00	17	50	4 1/2	100
	20	5320	74.00	17	53	4 1/2	100
	22	5322	83.00	17	56	4 1/2	100
	24	5324	86.00	17	59	4 1/2	100
	26	5326	91.00	17	62	4 1/2	100
	28	5328	94.00	17	62	4 1/2	100
	30	5330	98.00	17	65	4 1/2	100
	32	5332	102.00	17	68	4 1/2	100

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5. For panels with 250 volt branches add 20%.

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**



2 Wire Mains. 2 Wire Branches.

BRANCHES: Double pole with 30 amp. plug fuse connections.

FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED

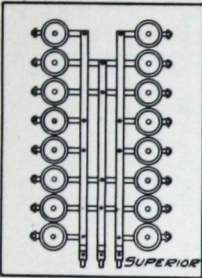
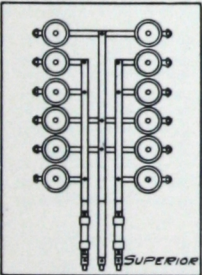
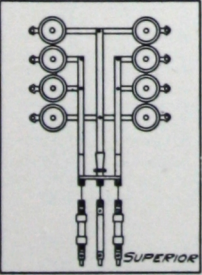


## Live Front Panelboards and Cabinets

3 Wire Mains. 2 Wire Branches.

**Type E3—125-250 Volt**

BRANCHES: Double pole with 30 amp. plug fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
			Wide	High	Deep		
MAIN LUGS ONLY							
	4	7004	\$25.00	17	17	4 1/2	24
	6	7006	30.00	17	20	4 1/2	33
	8	7008	34.00	17	23	4 1/2	42
	10	7010	37.00	17	26	4 1/2	50
	12	7012	39.00	17	29	4 1/2	58
	14	7014	44.00	17	32	4 1/2	66
	16	7016	48.00	17	35	4 1/2	72
	18	7018	51.00	17	38	4 1/2	77
	20	7020	55.00	17	41	4 1/2	81
	22	7022	61.00	17	44	4 1/2	85
	24	7024	64.00	17	47	4 1/2	88
	26	7026	69.00	17	50	4 1/2	91
	28	7028	72.00	17	53	4 1/2	94
	30	7030	76.00	17	56	4 1/2	97
	32	7032	79.00	17	59	4 1/2	100
	FUSES IN MAINS						
	4	7104	\$28.00	17	20	4 1/2	30
	6	7106	34.00	17	26	4 1/2	60
	8	7108	37.00	17	29	4 1/2	60
	10	7110	41.00	17	32	4 1/2	60
	12	7112	44.00	17	35	4 1/2	60
	14	7114	50.00	17	41	4 1/2	100
	16	7116	54.00	17	44	4 1/2	100
	18	7118	57.00	17	47	4 1/2	100
	20	7120	63.00	17	50	4 1/2	100
	22	7122	68.00	17	53	4 1/2	100
	24	7124	71.00	17	56	4 1/2	100
	26	7126	75.00	17	59	4 1/2	100
	28	7128	78.00	17	62	4 1/2	100
	30	7130	83.00	17	65	4 1/2	100
	32	7132	86.00	17	68	4 1/2	100
	FUSED SWITCH IN MAINS						
	4	7304	\$ 36.00	17	26	4 1/2	30
	6	7306	43.00	17	29	4 1/2	60
	8	7308	47.00	17	32	4 1/2	60
	10	7310	50.00	17	35	4 1/2	60
	12	7312	53.00	17	38	4 1/2	60
	14	7314	60.00	17	44	4 1/2	100
	16	7316	64.00	17	47	4 1/2	100
	18	7318	70.00	17	50	4 1/2	100
	20	7320	74.00	17	53	4 1/2	100
	22	7322	83.00	17	56	4 1/2	100
	24	7324	86.00	17	59	4 1/2	100
	26	7326	91.00	17	62	4 1/2	100
	28	7328	94.00	17	65	4 1/2	100
	30	7330	98.00	17	68	4 1/2	100
	32	7332	102.00	17	71	4 1/2	100

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5.

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**



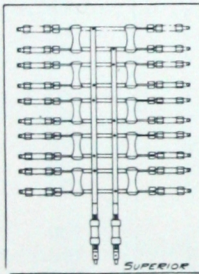
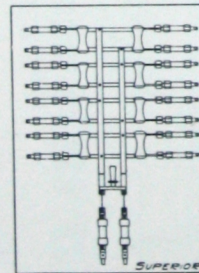
## Live Front Panelboards and Cabinets

2 Wire Mains. 2 Wire Branches.

**Type KC2—125 Volt**

BRANCHES: Double pole with 30 amp. knife switch and cartridge fuse connections.

BRANCHES

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
			Wide	High	Deep		
MAIN LUGS ONLY							
	4	8004	\$29.00	21	17	4 1/2	48
	6	8006	32.00	21	20	4 1/2	66
	8	8008	37.00	21	23	4 1/2	84
	10	8010	41.00	21	26	4 1/2	100
	12	8012	47.00	21	29	4 1/2	116
	14	8014	52.00	21	32	4 1/2	132
	16	8016	56.00	21	35	4 1/2	144
	18	8018	60.00	21	38	4 1/2	154
	20	8020	64.00	21	38	4 1/2	162
	22	8022	72.00	21	41	4 1/2	170
	24	8024	75.00	21	44	4 1/2	176
	26	8026	81.00	21	47	4 1/2	182
	28	8028	85.00	21	50	4 1/2	188
	30	8030	90.00	21	53	4 1/2	194
	32	8032	94.00	21	53	4 1/2	200
	FUSES IN MAINS						
	4	8104	\$ 31.00	21	20	4 1/2	60
	6	8106	37.00	21	26	4 1/2	100
	8	8108	41.00	21	29	4 1/2	100
	10	8110	46.00	21	32	4 1/2	100
	12	8112	56.00	21	38	4 1/2	200
	14	8114	61.00	21	41	4 1/2	200
	16	8116	65.00	21	44	4 1/2	200
	18	8118	70.00	21	44	4 1/2	200
	20	8120	74.00	21	47	4 1/2	200
	22	8122	80.00	21	50	4 1/2	200
	24	8124	84.00	21	53	4 1/2	200
	26	8126	89.00	21	56	4 1/2	200
	28	8128	93.00	21	59	4 1/2	200
	30	8130	98.00	21	62	4 1/2	200
	32	8132	102.00	21	65	4 1/2	200
	FUSED SWITCH IN MAINS						
	4	8304	\$ 38.00	21	26	4 1/2	60
	6	8306	44.00	21	32	4 1/2	100
	8	8308	49.00	21	35	4 1/2	100
	10	8310	53.00	21	38	4 1/2	100
	12	8312	73.00	21	44	5 1/4	200
	14	8314	80.00	21	47	5 1/4	200
	16	8316	85.00	21	50	5 1/4	200
	18	8318	89.00	21	53	5 1/4	200
	20	8320	94.00	21	56	5 1/4	200
	22	8322	98.00	21	59	5 1/4	200
	24	8324	103.00	21	62	5 1/4	200
	26	8326	108.00	21	65	5 1/4	200
	28	8328	113.00	21	65	5 1/4	200
	30	8330	117.00	21	68	5 1/4	200
	32	8332	122.00	21	71	5 1/4	200

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5. For panels with 250 volt branches add 20%.

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**

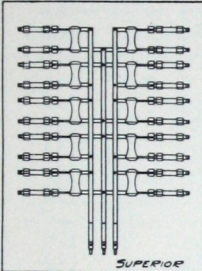
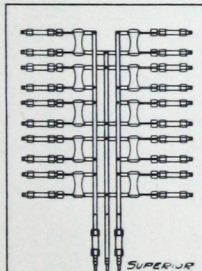
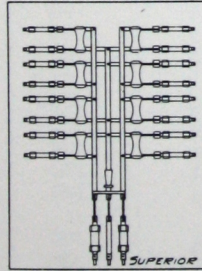


## Live Front Panelboards and Cabinets

3 Wire Mains. 2 Wire Branches.

**Type KC3—125-250 Volt**

BRANCHES: Double pole with 30 amp. knife switch and cartridge fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
			Wide	High	Deep		
MAIN LUGS ONLY							
	4	9004	\$29.00	21	17	4 1/2	24
	6	9006	35.00	21	20	4 1/2	33
	8	9008	40.00	21	23	4 1/2	42
	10	9010	44.00	21	26	4 1/2	50
	12	9012	47.00	21	29	4 1/2	58
	14	9014	53.00	21	32	4 1/2	66
	16	9016	58.00	21	32	4 1/2	72
	18	9018	62.00	21	35	4 1/2	77
	20	9020	67.00	21	38	4 1/2	81
	22	9022	74.00	21	41	4 1/2	85
	24	9024	79.00	21	44	4 1/2	88
	26	9026	84.00	21	47	4 1/2	91
	28	9028	88.00	21	50	4 1/2	94
	30	9030	94.00	21	53	4 1/2	97
	32	9032	98.00	21	53	4 1/2	100
	FUSES IN MAINS						
	4	9104	\$ 32.00	21	20	4 1/2	30
	6	9106	38.00	21	23	4 1/2	60
	8	9108	44.00	21	26	4 1/2	60
	10	9110	48.00	21	29	4 1/2	60
	12	9112	52.00	21	32	4 1/2	60
	14	9114	60.00	21	38	4 1/2	100
	16	9116	64.00	21	41	4 1/2	100
	18	9118	68.00	21	44	4 1/2	100
	20	9120	76.00	21	47	4 1/2	100
	22	9122	81.00	21	50	4 1/2	100
	24	9124	86.00	21	50	4 1/2	100
	26	9126	91.00	21	53	4 1/2	100
	28	9128	96.00	21	56	4 1/2	100
	30	9130	101.00	21	59	4 1/2	100
	32	9132	105.00	21	62	4 1/2	100
	FUSED SWITCH IN MAINS						
	4	9304	\$ 40.00	21	23	4 1/2	30
	6	9306	48.00	21	29	4 1/2	60
	8	9308	53.00	21	32	4 1/2	60
	10	9310	57.00	21	35	4 1/2	60
	12	9312	61.00	21	38	4 1/2	60
	14	9314	70.00	21	44	4 1/2	100
	16	9316	75.00	21	47	4 1/2	100
	18	9318	81.00	21	50	4 1/2	100
	20	9320	86.00	21	53	4 1/2	100
	22	9322	97.00	21	56	4 1/2	100
	24	9324	102.00	21	59	4 1/2	100
	26	9326	107.00	21	62	4 1/2	100
	28	9328	111.00	21	62	4 1/2	100
	30	9330	117.00	21	65	4 1/2	100
	32	9332	121.00	21	68	4 1/2	100

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5. For panels with 250 volt branches add 20%.

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**

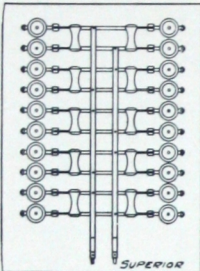
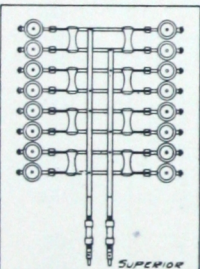
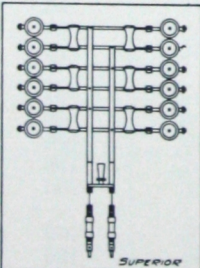


## Live Front Panelboards and Cabinets

2 Wire Mains. 2 Wire Branches.

**Type KE2—125 Volt**

BRANCHES: Double pole with 30 amp. knife switch and plug fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
			Wide	High	Deep		
MAIN LUGS ONLY							
	4	10004	\$29.00	21	17	4½	48
	6	10006	32.00	21	20	4½	66
	8	10008	37.00	21	23	4½	84
	10	10010	41.00	21	26	4½	100
	12	10012	47.00	21	29	4½	116
	14	10014	52.00	21	32	4½	132
	16	10016	56.00	21	35	4½	144
	18	10018	60.00	21	38	4½	154
	20	10020	64.00	21	41	4½	162
	22	10022	72.00	21	44	4½	170
	24	10024	75.00	21	47	4½	176
	26	10026	81.00	21	50	4½	182
	28	10028	85.00	21	53	4½	188
	30	10030	90.00	21	56	4½	194
	32	10032	94.00	21	59	4½	200
	FUSES IN MAINS						
	4	10104	\$ 31.00	21	20	4½	60
	6	10106	37.00	21	29	4½	100
8	10108	41.00	21	32	4½	100	
10	10110	46.00	21	35	4½	100	
12	10112	56.00	21	38	4½	200	
14	10114	61.00	21	41	4½	200	
16	10116	65.00	21	44	4½	200	
18	10118	70.00	21	47	4½	200	
20	10120	74.00	21	50	4½	200	
22	10122	80.00	21	53	4½	200	
24	10124	84.00	21	56	4½	200	
26	10126	89.00	21	59	4½	200	
28	10128	93.00	21	62	4½	200	
30	10130	98.00	21	65	4½	200	
32	10132	102.00	21	68	4½	200	
FUSED SWITCH IN MAINS							
	4	10304	\$ 38.00	21	26	4½	60
	6	10306	44.00	21	32	4½	100
	8	10308	49.00	21	35	4½	100
	10	10310	53.00	21	38	4½	100
	12	10312	73.00	21	44	5¼	200
	14	10314	80.00	21	47	5¼	200
	16	10316	85.00	21	50	5¼	200
	18	10318	89.00	21	53	5¼	200
	20	10320	94.00	21	56	5¼	200
	22	10322	98.00	21	59	5¼	200
	24	10324	103.00	21	62	5¼	200
	26	10326	108.00	21	65	5¼	200
28	10328	113.00	21	68	5¼	200	
30	10330	117.00	21	71	5¼	200	
32	10332	122.00	21	74	5¼	200	

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22 For description of type NL cabinet see page 5.

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**

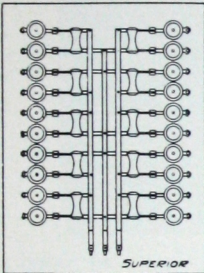
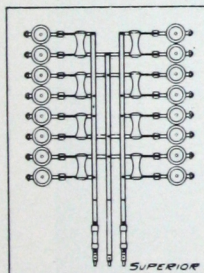
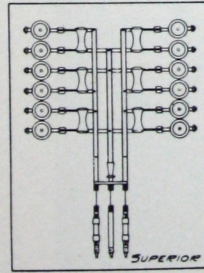


## Live Front Panelboards and Cabinets

3 Wire Mains. 2 Wire Branches.

**Type KE3—125-250 Volt**

BRANCHES: Double pole with 30 amp. knife switch and plug fuse connections.

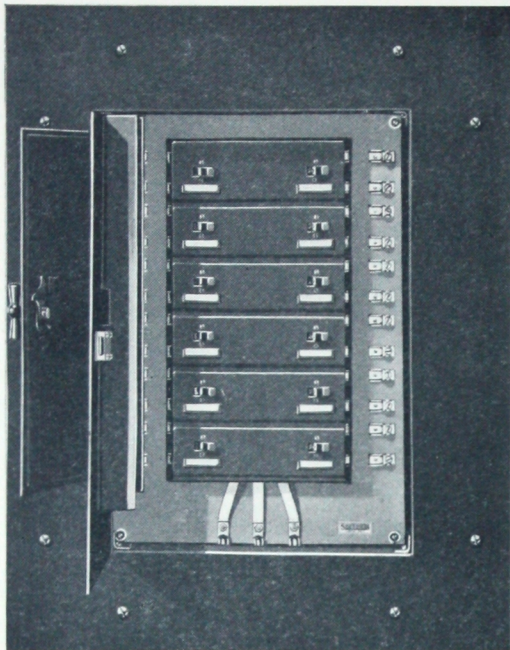
Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
			Wide	High	Deep		
MAIN LUGS ONLY							
	4	<b>11004</b>	<b>\$29.00</b>	21	17	4 1/2	24
	6	<b>11006</b>	<b>35.00</b>	21	20	4 1/2	33
	8	<b>11008</b>	<b>40.00</b>	21	23	4 1/2	42
	10	<b>11010</b>	<b>44.00</b>	21	26	4 1/2	50
	12	<b>11012</b>	<b>47.00</b>	21	29	4 1/2	58
	14	<b>11014</b>	<b>53.00</b>	21	32	4 1/2	66
	16	<b>11016</b>	<b>58.00</b>	21	35	4 1/2	72
	18	<b>11018</b>	<b>62.00</b>	21	38	4 1/2	77
	20	<b>11020</b>	<b>67.00</b>	21	41	4 1/2	81
	22	<b>11022</b>	<b>74.00</b>	21	44	4 1/2	85
	24	<b>11024</b>	<b>79.00</b>	21	47	4 1/2	88
	26	<b>11026</b>	<b>84.00</b>	21	50	4 1/2	91
	28	<b>11028</b>	<b>88.00</b>	21	53	4 1/2	94
	30	<b>11030</b>	<b>94.00</b>	21	56	4 1/2	97
	32	<b>11032</b>	<b>98.00</b>	21	59	4 1/2	100
	FUSES IN MAINS						
	4	<b>11104</b>	<b>\$ 32.00</b>	21	20	4 1/2	30
	6	<b>11106</b>	<b>38.00</b>	21	26	4 1/2	60
	8	<b>11108</b>	<b>44.00</b>	21	29	4 1/2	60
	10	<b>11110</b>	<b>48.00</b>	21	32	4 1/2	60
	12	<b>11112</b>	<b>52.00</b>	21	35	4 1/2	60
	14	<b>11114</b>	<b>60.00</b>	21	41	4 1/2	100
	16	<b>11116</b>	<b>64.00</b>	21	44	4 1/2	100
	18	<b>11118</b>	<b>68.00</b>	21	47	4 1/2	100
	20	<b>11120</b>	<b>76.00</b>	21	50	4 1/2	100
	22	<b>11122</b>	<b>81.00</b>	21	53	4 1/2	100
	24	<b>11124</b>	<b>86.00</b>	21	56	4 1/2	100
	26	<b>11126</b>	<b>91.00</b>	21	59	4 1/2	100
	28	<b>11128</b>	<b>96.00</b>	21	62	4 1/2	100
	30	<b>11130</b>	<b>101.00</b>	21	65	4 1/2	100
	32	<b>11132</b>	<b>105.00</b>	21	68	4 1/2	100
	FUSED SWITCH IN MAINS						
	4	<b>11304</b>	<b>\$ 40.00</b>	21	26	4 1/2	30
	6	<b>11306</b>	<b>48.00</b>	21	29	4 1/2	60
	8	<b>11308</b>	<b>53.00</b>	21	32	4 1/2	60
	10	<b>11310</b>	<b>57.00</b>	21	35	4 1/2	60
	12	<b>11312</b>	<b>61.00</b>	21	38	4 1/2	60
	14	<b>11314</b>	<b>70.00</b>	21	44	4 1/2	100
	16	<b>11316</b>	<b>75.00</b>	21	47	4 1/2	100
	18	<b>11318</b>	<b>81.00</b>	21	50	4 1/2	100
	20	<b>11320</b>	<b>86.00</b>	21	53	4 1/2	100
	22	<b>11322</b>	<b>97.00</b>	21	56	4 1/2	100
	24	<b>11324</b>	<b>102.00</b>	21	59	4 1/2	100
	26	<b>11326</b>	<b>107.00</b>	21	62	4 1/2	100
	28	<b>11328</b>	<b>111.00</b>	21	65	4 1/2	100
	30	<b>11330</b>	<b>117.00</b>	21	68	4 1/2	100
	32	<b>11332</b>	<b>121.00</b>	21	71	4 1/2	100

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5.

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**



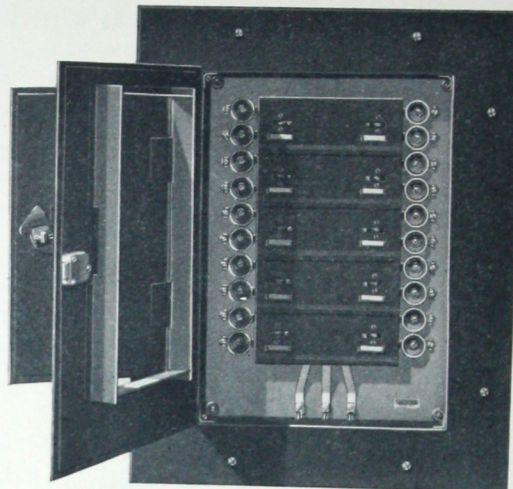
## Dead Front Panelboards and Cabinets (Safety Type)



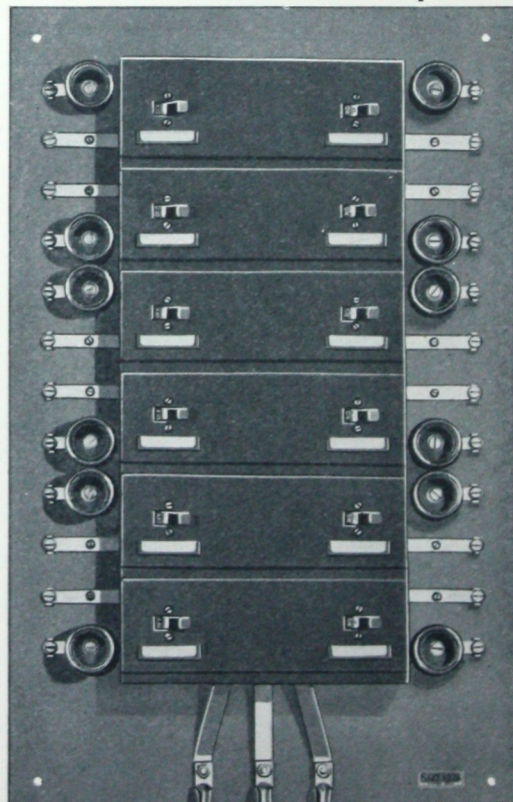
The Cat. No. 17012 panel shown above is described and listed on page 19 of this book. This panel is mounted in a type DD steel cabinet. Both doors of the cabinet are open, allowing access to the entire panelboard. When the large door is closed, only the operating handles of the circuit switches can be reached.



This photograph illustrates a dead front panel in a type DD steel cabinet. Since the small door only is open and the large door locked shut, unauthorized persons cannot come in contact with current carrying parts.



This Cat. No. 19010 panel is described and listed on page 21. The sectional safety plates can be removed separately without disturbing any of the other safety plates and branch switches can be replaced without disturbing any of the other circuits on the panel.



This photograph illustrates a panelboard having double pole, branch switches and single pole, branch fuses, with neutrals solid.

We are in a position to furnish solid neutral bus bars in the branches of lighting panelboards, at no additional cost, provided this specification accompanies order.



## Dead Front Panelboards and Cabinets (Safety Type)



DEAD Front Panelboards can be used safely on any installation. They are so designed that when a type DD cabinet contains the panelboard, it is impossible for an unauthorized person to come in contact with current carrying parts. We have eliminated listing dead front panelboards with push switches, since the tumbler switches are much more rugged and positive in action than the ordinary push type panelboard switch. However, push switches can be furnished if necessary.

Dead Front Panelboards are listed with both type DD and type NL cabinets. The type DD cabinet is the ideal one for use with any of the panelboards hereinafter described, since it makes a dead front panelboard absolutely safe. The type NL cabinet can be used with a dead front panelboard, however the safety type feature is entirely defeated, since inexperienced or unauthorized persons can come in contact with the current carrying parts of the panel.

### SPECIFICATIONS

- PANELS: 1" black marine finish slate.  
BARRIERS: 1/2" black marine finish slate with adjustable corner supports.  
BOX: Guttered Type Code Gauge Steel.  
FRONT: Highly finished Code Gauge Steel, Flush or Surface.  
KNOCKOUTS: For standard knockouts see page 5.

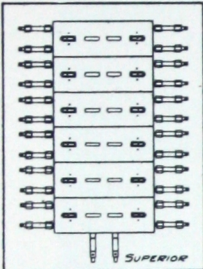
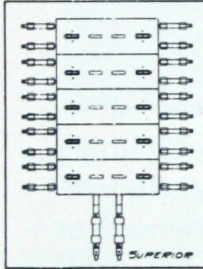
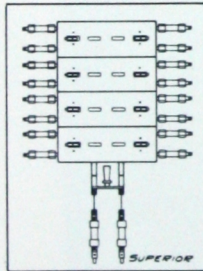
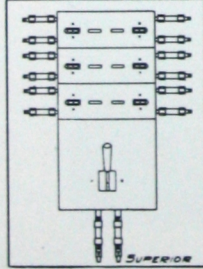


## Dead Front Panelboards and Cabinets

2 Wire Mains. 2 Wire Branches.

**Type TC2—125 Volt**

BRANCHES: Double pole with 30 amp. tumbler switch and cartridge fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type DD flush or surface steel cabinet	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
				Wide	High	Deep		
MAIN LUGS ONLY								
	4	16004	\$ 42.00	\$ 33.00	21	17	4 1/2	48
	6	16006	49.00	38.00	21	20	4 1/2	66
	8	16008	55.00	45.00	21	23	4 1/2	84
	10	16010	61.00	51.00	21	26	4 1/2	100
	12	16012	76.00	59.00	21	29	4 1/2	116
	14	16014	77.00	66.00	21	32	4 1/2	132
	16	16016	83.00	72.00	21	35	4 1/2	144
	18	16018	91.00	78.00	21	38	4 1/2	154
	20	16020	97.00	84.00	21	38	4 1/2	162
	22	16022	107.00	94.00	21	41	4 1/2	170
	24	16024	113.00	100.00	21	44	4 1/2	176
	26	16026	121.00	107.00	21	47	4 1/2	182
	28	16028	127.00	113.00	21	50	4 1/2	188
	30	16030	133.00	120.00	21	53	4 1/2	194
	32	16032	141.00	126.00	21	53	4 1/2	200
FUSES IN MAINS								
	4	16104	\$ 45.00	\$ 35.00	21	20	4 1/2	60
	6	16106	54.00	43.00	21	26	4 1/2	100
	8	16108	61.00	49.00	21	29	4 1/2	100
	10	16110	66.00	56.00	21	32	4 1/2	100
	12	16112	79.00	68.00	21	38	4 1/2	200
	14	16114	88.00	75.00	21	41	4 1/2	200
	16	16116	94.00	81.00	21	44	4 1/2	200
	18	16118	101.00	88.00	21	44	4 1/2	200
	20	16120	108.00	94.00	21	47	4 1/2	200
	22	16122	114.00	102.00	21	50	4 1/2	200
	24	16124	124.00	108.00	21	53	4 1/2	200
	26	16126	131.00	115.00	21	56	4 1/2	200
	28	16128	138.00	121.00	21	59	4 1/2	200
	30	16130	146.00	128.00	21	62	4 1/2	200
	32	16132	154.00	134.00	21	65	4 1/2	200
FUSED KNIFE SWITCH IN MAINS								
	4	16304	\$ 53.00	\$ 42.00	21	26	4 1/2	60
	6	16306	62.00	50.00	21	32	4 1/2	100
	8	16308	68.00	57.00	21	35	4 1/2	100
	10	16310	75.00	63.00	21	38	4 1/2	100
	12	16312	90.00	85.00	21	44	5 1/4	200
	14	16314	108.00	95.00	21	47	5 1/4	200
	16	16316	115.00	100.00	21	50	5 1/4	200
	18	16318	122.00	107.00	21	53	5 1/4	200
	20	16320	128.00	114.00	21	56	5 1/4	200
	22	16322	136.00	120.00	21	59	5 1/4	200
	24	16324	143.00	127.00	21	62	5 1/4	200
	26	16326	150.00	134.00	21	65	5 1/4	200
	28	16328	157.00	141.00	21	65	5 1/4	200
	30	16330	163.00	147.00	21	68	5 1/4	200
	32	16332	170.00	154.00	21	71	5 1/4	200
FUSED BRUSH SWITCH IN MAINS (SAFETY TYPE)								
	4	16404	\$ 59.00	\$ 47.00	21	26	5 1/4	60
	6	16406	73.00	58.00	21	32	5 1/4	100
	8	16408	79.00	66.00	21	35	5 1/4	100
	10	16410	88.00	74.00	21	38	5 1/4	100
	12	16412	97.00	92.00	21	44	6 1/4	200
	14	16414	112.00	107.00	21	47	6 1/4	200
	16	16416	126.00	115.00	21	50	6 1/4	200
	18	16418	132.00	122.00	21	53	6 1/4	200
	20	16420	136.00	125.00	21	56	6 1/4	200
	22	16422	142.00	135.00	21	59	6 1/4	200
	24	16424	152.00	138.00	21	62	6 1/4	200
	26	16426	155.00	147.00	21	65	6 1/4	200
	28	16428	164.00	153.00	21	65	6 1/4	200
	30	16430	169.00	159.00	21	68	6 1/4	200
	32	16432	175.00	169.00	21	71	6 1/4	200

Panels with unfused main switches, same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type DD steel cabinet see page 5. Of NL see page 5. For panels with 250 volt branches, add 20%.

FLUSH TYPE DD CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED

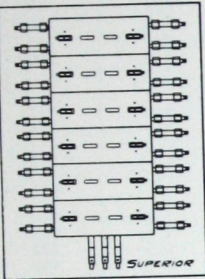
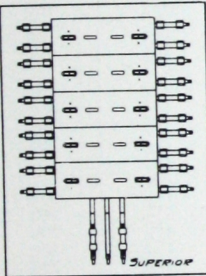
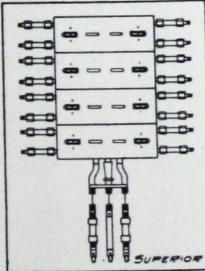
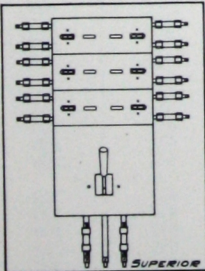


## Dead Front Panelboards and Cabinets

3 Wire Mains. 2 Wire Branches.

**Type TC3—125-250 Volt**

BRANCHES: Double pole with 30 amp. tumbler switch and cartridge fuse connections.

	Number of circuits	Catalogue number	Panel with barrier and type DD flush or surface steel cabinet	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes
					Wide	High	Deep	
MAIN LUGS ONLY								
	4	17004	\$ 41.00	\$ 33.00	21	17	4 1/2	24
	6	17006	50.00	41.00	21	20	4 1/2	33
	8	17008	56.00	48.00	21	23	4 1/2	42
	10	17010	64.00	54.00	21	26	4 1/2	50
	12	17012	69.00	59.00	21	29	4 1/2	58
	14	17014	76.00	67.00	21	32	4 1/2	66
	16	17016	84.00	74.00	21	32	4 1/2	72
	18	17018	92.00	80.00	21	35	4 1/2	77
	20	17020	103.00	87.00	21	38	4 1/2	81
	22	17022	108.00	96.00	21	41	4 1/2	85
	24	17024	115.00	102.00	21	44	4 1/2	88
	26	17026	122.00	105.00	21	47	4 1/2	91
	28	17028	129.00	111.00	21	50	4 1/2	94
	30	17030	135.00	123.00	21	53	4 1/2	97
	32	17032	141.00	130.00	21	53	4 1/2	100
	FUSES IN MAINS							
	4	17104	\$ 44.00	\$ 36.00	21	20	4 1/2	30
	6	17106	53.00	44.00	21	23	4 1/2	60
	8	17108	60.00	52.00	21	26	4 1/2	60
	10	17110	67.00	58.00	21	29	4 1/2	60
	12	17112	73.00	64.00	21	32	4 1/2	60
	14	17114	83.00	73.00	21	38	4 1/2	100
	16	17116	91.00	80.00	21	41	4 1/2	100
	18	17118	98.00	83.00	21	44	4 1/2	100
	20	17120	108.00	95.00	21	47	4 1/2	100
	22	17122	115.00	103.00	21	50	4 1/2	100
	24	17124	122.00	110.00	21	50	4 1/2	100
	26	17126	132.00	117.00	21	53	4 1/2	100
	28	17128	139.00	123.00	21	56	4 1/2	100
	30	17130	145.00	131.00	21	59	4 1/2	100
	32	17132	151.00	137.00	21	62	4 1/2	100
	FUSED KNIFE SWITCH IN MAINS							
	4	17304	\$ 53.00	\$ 44.00	21	23	4 1/2	30
	6	17306	64.00	54.00	21	29	4 1/2	60
	8	17308	70.00	60.00	21	32	4 1/2	60
	10	17310	77.00	66.00	21	35	4 1/2	60
	12	17312	86.00	73.00	21	38	4 1/2	60
	14	17314	96.00	84.00	21	44	4 1/2	100
	16	17316	102.00	90.00	21	47	4 1/2	100
	18	17318	113.00	99.00	21	50	4 1/2	100
	20	17320	119.00	106.00	21	53	4 1/2	100
	22	17322	130.00	119.00	21	56	4 1/2	100
	24	17324	142.00	125.00	21	59	4 1/2	100
	26	17326	148.00	133.00	21	62	4 1/2	100
	28	17328	156.00	139.00	21	62	4 1/2	100
	30	17330	164.00	146.00	21	65	4 1/2	100
	32	17332	172.00	153.00	21	68	4 1/2	100
	FUSED BRUSH SWITCH IN MAINS (SAFETY TYPE)							
	4	17404	\$ 59.00	\$ 49.00	21	23	5 1/4	30
	6	17406	75.00	53.00	21	29	5 1/4	60
	8	17408	81.00	69.00	21	32	5 1/4	60
	10	17410	85.00	77.00	21	35	5 1/4	60
	12	17412	93.00	89.00	21	38	5 1/4	60
	14	17414	112.00	97.00	21	44	5 1/4	100
	16	17416	119.00	102.00	21	47	5 1/4	100
	18	17418	123.00	107.00	21	50	5 1/4	100
	20	17420	127.00	113.00	21	53	5 1/4	100
	22	17422	136.00	124.00	21	56	5 1/4	100
	24	17424	151.00	132.00	21	59	5 1/4	100
	26	17426	154.00	137.00	21	62	5 1/4	100
	28	17428	163.00	145.00	21	62	5 1/4	100
	30	17430	170.00	151.00	21	65	5 1/4	100
	32	17432	177.00	158.00	21	68	5 1/4	100

Panels with unfused main switches, same list price as fused main switch panels. For sub-feeds see page 23. For thru-feeds see page 22. loops see page 25. For panels with 250 volt branches, add 20%.

Catalogue number includes panel, barrier and cabinet. For meter Of NL For description of type DD steel cabinet see page 5.

**FLUSH TYPE DD CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**

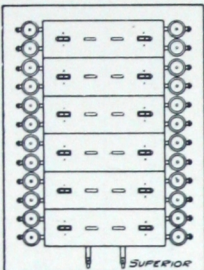
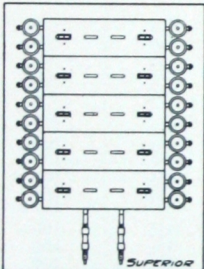
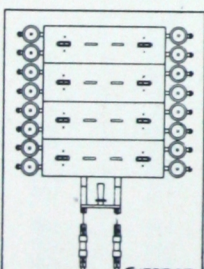
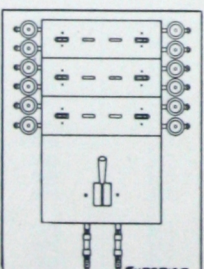


## Dead Front Panelboards and Cabinets

2 Wire Mains. 2 Wire Branches.

**Type TE2—125 Volt**

BRANCHES: Double pole with 30 amp. tumbler switch and plug fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type DD flush or surface steel cabinet	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
				Wide	High	Deep		
MAIN LUGS ONLY								
	4	18004	\$ 42.00	\$ 33.00	21	17	4 1/2	48
	6	18006	49.00	38.00	21	20	4 1/2	66
	8	18008	55.00	45.00	21	23	4 1/2	84
	10	18010	61.00	51.00	21	26	4 1/2	100
	12	18012	76.00	59.00	21	29	4 1/2	116
	14	18014	77.00	66.00	21	32	4 1/2	132
	16	18016	83.00	72.00	21	35	4 1/2	144
	18	18018	91.00	78.00	21	38	4 1/2	154
	20	18020	97.00	84.00	21	41	4 1/2	162
	22	18022	107.00	94.00	21	44	4 1/2	170
	24	18024	113.00	100.00	21	47	4 1/2	176
	26	18026	121.00	107.00	21	50	4 1/2	182
	28	18028	127.00	113.00	21	53	4 1/2	188
	30	18030	133.00	120.00	21	56	4 1/2	194
	32	18032	141.00	126.00	21	59	4 1/2	200
	FUSES IN MAINS							
	4	18104	\$ 45.00	\$ 35.00	21	20	4 1/2	60
	6	18106	54.00	43.00	21	29	4 1/2	100
	8	18108	61.00	49.00	21	32	4 1/2	100
	10	18110	66.00	56.00	21	35	4 1/2	100
	12	18112	79.00	68.00	21	38	4 1/2	200
	14	18114	88.00	75.00	21	41	4 1/2	200
	16	18116	94.00	81.00	21	44	4 1/2	200
	18	18118	101.00	88.00	21	47	4 1/2	200
	20	18120	108.00	94.00	21	50	4 1/2	200
	22	18122	114.00	102.00	21	53	4 1/2	200
	24	18124	124.00	108.00	21	56	4 1/2	200
	26	18126	131.00	115.00	21	59	4 1/2	200
	28	18128	138.00	121.00	21	62	4 1/2	200
	30	18130	146.00	128.00	21	65	4 1/2	200
	32	18132	154.00	134.00	21	68	4 1/2	200
	FUSED KNIFE SWITCH IN MAINS							
	4	18304	\$ 53.00	\$ 42.00	21	26	4 1/2	60
	6	18306	62.00	50.00	21	32	4 1/2	100
	8	18308	68.00	57.00	21	35	4 1/2	100
	10	18310	75.00	63.00	21	38	4 1/2	100
	12	18312	90.00	85.00	21	44	5 1/4	200
	14	18314	108.00	95.00	21	47	5 1/4	200
	16	18316	115.00	100.00	21	50	5 1/4	200
	18	18318	122.00	107.00	21	53	5 1/4	200
	20	18320	128.00	114.00	21	56	5 1/4	200
	22	18322	136.00	120.00	21	59	5 1/4	200
	24	18324	143.00	127.00	21	62	5 1/4	200
	26	18326	150.00	134.00	21	65	5 1/4	200
	28	18328	157.00	141.00	21	68	5 1/4	200
	30	18330	163.00	147.00	21	71	5 1/4	200
	32	18332	170.00	154.00	21	74	5 1/4	200
	FUSED BRUSH SWITCH IN MAINS (SAFETY TYPE)							
	4	18404	\$ 59.00	\$ 47.00	21	26	5 1/4	60
	6	18406	73.00	58.00	21	32	5 1/4	100
	8	18408	79.00	66.00	21	35	5 1/4	100
	10	18410	88.00	74.00	21	38	5 1/4	100
	12	18412	97.00	92.00	21	44	6 1/4	200
	14	18414	112.00	107.00	21	47	6 1/4	200
	16	18416	126.00	115.00	21	50	6 1/4	200
	18	18418	132.00	122.00	21	52	6 1/4	200
	20	18420	136.00	125.00	21	56	6 1/4	200
	22	18422	142.00	135.00	21	59	6 1/4	200
	24	18424	152.00	138.00	21	62	6 1/4	200
	26	18426	155.00	147.00	21	65	6 1/4	200
	28	18428	164.00	153.00	21	68	6 1/4	200
	30	18430	169.00	159.00	21	71	6 1/4	200
	32	18432	175.00	169.00	21	74	6 1/4	200

Panels with unfused main switches, same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type DD steel cabinet see page 5. Of NL see page 5.

FLUSH TYPE DD CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED

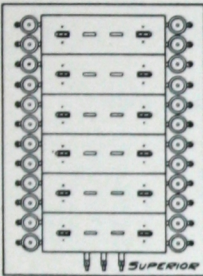
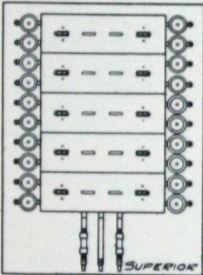
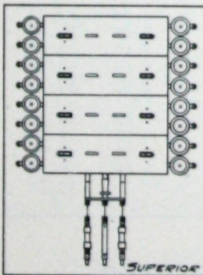
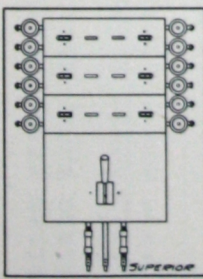


## Dead Front Panelboards and Cabinets

3 Wire Mains. 2 Wire Branches.

**Type TE3—125-250 Volt**

BRANCHES: Double pole with 30 amp. tumbler switch and plug fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type DD flush or surface steel cabinet	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
				Wide	High	Deep		
MAIN LUGS ONLY								
	4	19004	\$ 41.00	\$ 33.00	21	17	4½	24
	6	19006	50.00	41.00	21	20	4½	33
	8	19008	56.00	48.00	21	23	4½	42
	10	19010	64.00	54.00	21	26	4½	50
	12	19012	69.00	59.00	21	29	4½	58
	14	19014	76.00	67.00	21	32	4½	66
	16	19016	84.00	74.00	21	35	4½	72
	18	19018	92.00	80.00	21	38	4½	77
	20	19020	103.00	87.00	21	41	4½	81
	22	19022	108.00	96.00	21	44	4½	85
	24	19024	115.00	102.00	21	47	4½	88
	26	19026	122.00	105.00	21	50	4½	91
	28	19028	129.00	111.00	21	53	4½	94
	30	19030	135.00	123.00	21	56	4½	97
	32	19032	141.00	130.00	21	59	4½	100
FUSES IN MAINS								
	4	19104	\$ 44.00	\$ 36.00	21	20	4½	30
	6	19106	53.00	44.00	21	26	4½	60
	8	19108	60.00	52.00	21	29	4½	60
	10	19110	67.00	58.00	21	32	4½	60
	12	19112	73.00	64.00	21	35	4½	60
	14	19114	83.00	73.00	21	41	4½	100
	16	19116	91.00	80.00	21	44	4½	100
	18	19118	98.00	83.00	21	47	4½	100
	20	19120	108.00	95.00	21	50	4½	100
	22	19122	115.00	103.00	21	53	4½	100
	24	19124	122.00	110.00	21	56	4½	100
	26	19126	132.00	117.00	21	59	4½	100
	28	19128	139.00	123.00	21	62	4½	100
	30	19130	145.00	131.00	21	65	4½	100
	32	19132	151.00	137.00	21	68	4½	100
FUSED KNIFE SWITCH IN MAINS								
	4	19304	\$ 53.00	\$ 44.00	21	26	4½	30
	6	19306	64.00	54.00	21	29	4½	60
	8	19308	70.00	60.00	21	32	4½	60
	10	19310	77.00	66.00	21	35	4½	60
	12	19312	86.00	73.00	21	38	4½	60
	14	19314	96.00	84.00	21	44	4½	100
	16	19316	102.00	90.00	21	47	4½	100
	18	19318	113.00	99.00	21	50	4½	100
	20	19320	119.00	106.00	21	53	4½	100
	22	19322	130.00	119.00	21	56	4½	100
	24	19324	142.00	125.00	21	59	4½	100
	26	19326	148.00	133.00	21	62	4½	100
	28	19328	156.00	139.00	21	65	4½	100
	30	19330	164.00	146.00	21	68	4½	100
	32	19332	172.00	153.00	21	71	4½	100
FUSED BRUSH SWITCH IN MAINS (SAFETY TYPE)								
	4	19404	\$ 59.00	\$ 49.00	21	26	5¼	30
	6	19406	75.00	53.00	21	29	5¼	60
	8	19408	81.00	69.00	21	32	5¼	60
	10	19410	85.00	77.00	21	35	5¼	60
	12	19412	93.00	89.00	21	38	5¼	60
	14	19414						
	16	19416	112.00	97.00	21	44	5¼	100
	18	19418	119.00	102.00	21	47	5¼	100
	20	19420	123.00	107.00	21	50	5¼	100
	22	19422	127.00	113.00	21	53	5¼	100
	24	19424	136.00	124.00	21	56	5¼	100
	26	19426	151.00	132.00	21	59	5¼	100
	28	19428	154.00	137.00	21	62	5¼	100
	30	19430	163.00	145.00	21	65	5¼	100
	32	19432	170.00	151.00	21	68	5¼	100
			177.00	158.00	21	71	5¼	100

Panels with unfused main switches, same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type DD steel cabinet see page 5. Of NL see page 5.

FLUSH TYPE DD CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED

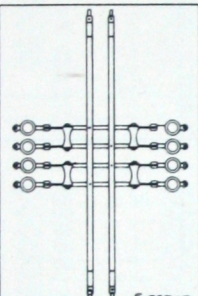


## Panels and Cabinets with Thru-Feed Lug Connections at Top

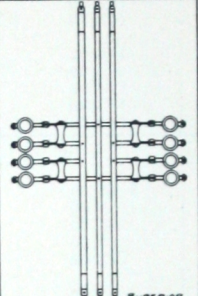
Additional List Prices to be Added to List Prices of Panels with Cabinets,  
Scheduled on Pages 8 to 37, Inclusive

2 Wire Mains	No. Cir.	Std. Cap. Bus Bars Amps	Additional list prices for thru-feed connections having capacity of			3 Wire Mains	No. Cir.	Std. Cap. Bus Bars Amps	Additional list prices for thru-feed connections having capacity of			
			60 Amps.	100 Amps.	200 Amps.				30 Amps.	60 Amps.	100 Amps.	200 Amps.

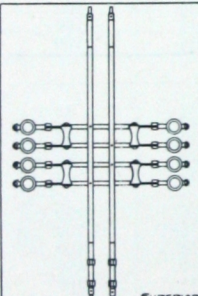
**Panels with main lugs at bottom and lugs at top.**

	4	48	\$5.45	\$6.50	\$10.70
	6	66		5.55	10.05
	8	84		6.30	10.10
	10	100			10.60
	12	116			7.35
	14	132			7.35
	16	144			7.35
	18	154			7.40
	20	162			7.90
	22	170			8.40
	24	176			8.80
	26	182			9.25
	28	188			9.90
	30	194			10.20
	32	200			10.20

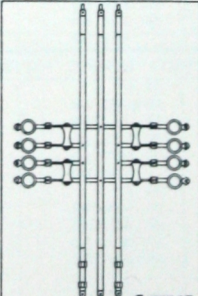
**Panels with main lugs at bottom and lugs at top.**

	4	24	\$4.20	\$6.00	\$8.60	\$13.85
	6	33		6.10	8.80	14.15
	8	42			7.35	13.40
	10	50			7.40	13.85
	12	58			7.95	14.70
	14	66			5.65	12.90
	16	72			5.65	13.30
	18	77			5.65	13.65
	20	81			5.65	14.00
	22	85			5.65	14.00
	24	88			5.65	14.25
	26	91			5.85	14.25
	28	94			5.85	14.25
	30	97			6.00	14.25
	32	100				15.75

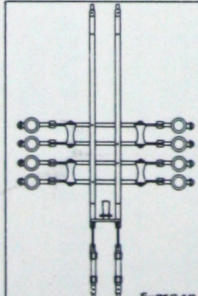
**Panels with main fusible connections at bottom and lugs at top.**

	4	48	\$6.40	\$8.80	\$14.90
	6	66		9.10	15.30
	8	84		5.60	13.10
	10	100			13.25
	12	116			7.35
	14	132			7.35
	16	144			7.35
	18	154			7.35
	20	162			7.35
	22	170			7.35
	24	176			7.40
	26	182			7.65
	28	188			7.80
	30	194			7.80
	32	200			8.00

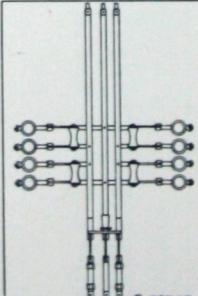
**Panels with main fusible connections at bottom and lugs at top.**

	4	24	\$4.00	\$7.20	\$11.85	\$19.80
	6	33		7.35	11.95	20.35
	8	42			9.85	21.10
	10	50			10.50	21.60
	12	58			11.00	22.60
	14	66			5.65	17.70
	16	72			5.65	18.05
	18	77			5.65	18.35
	20	81			5.65	18.55
	22	85			5.75	18.55
	24	88			5.75	18.90
	26	91			5.80	18.90
	28	94			5.80	18.90
	30	97			5.80	19.10
	32	100				19.25

**Panels with fusible main switch at bottom and lugs at top.**

	4	48	\$8.00	\$11.75	\$22.10
	6	66		11.85	22.50
	8	84		7.00	18.15
	10	100			18.35
	12	116			7.35
	14	132			7.35
	16	144			7.35
	18	154			7.35
	20	162			7.40
	22	170			7.50
	24	176			7.80
	26	182			8.00
	28	188			8.40
	30	194			8.80
	32	200			9.25

**Panels with fusible main switch at bottom and lugs at top.**

	4	24	\$4.20	\$9.45	\$19.40	\$32.50
	6	33		9.50	19.60	31.20
	8	42			14.70	31.90
	10	50			14.90	34.60
	12	58			15.30	34.65
	14	66			5.65	22.30
	16	72			5.65	22.55
	18	77			5.65	23.20
	20	81			5.65	23.20
	22	85			5.75	23.10
	24	88			5.75	23.30
	26	91			5.80	23.30
	28	94			5.95	24.10
	30	97			6.20	24.50
	32	100				25.00

When thru-feed panels are used, the lugs at the top and the main connections at the bottom of the thru-feed panel must be of the same capacity; therefore, the conductors feeding to and from a thru-feed panel must be of the same capacity.



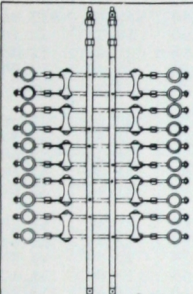
## Sub-Feed Panels with Cabinets

### Fusible Connections at the Top

Additional List Prices to be Added to List Prices of Panels with Cabinets,  
Scheduled on Pages 8 to 37, Inclusive

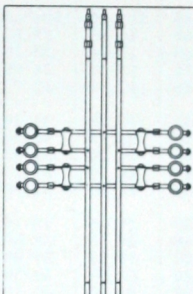
2 Wire Mains	No. Cir.	Std. Cap. Bus Bars Amps	Additional list prices for fusible sub-feed connections having capacity of				3 Wire Mains	No. Cir.	Std. Cap. Bus Bars Amps	Additional list prices for fusible sub-feed connections having capacity of		
			30 Amps.	60 Amps.	100 Amps.	200 Amps.				30 Amps.	60 Amps.	100 Amps.

**Panels with main lugs at bottom and fusible connections at top.**



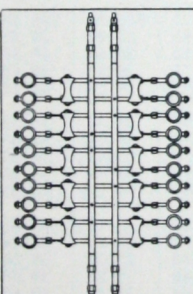
4	48	\$ 4.90	\$10.15	\$16.25	\$30.75
6	66	5.10	19.60	16.65	31.20
8	84	6.90	9.35	15.85	32.10
10	100	7.20	10.05	16.15	32.60
12	116	3.95	6.80	24.75	32.50
14	132	3.95	6.80	25.30	33.15
16	144	3.95	22.15	28.20	36.00
18	154	3.95	22.75	28.85	36.60
20	162	3.95	22.75	28.85	36.60
22	170	3.95	23.10	29.15	36.95
24	176	20.75	23.60	29.70	37.45
26	182	20.75	23.75	29.70	37.90
28	188	20.75	23.75	30.50	38.25
30	194	20.75	24.50	30.95	38.70
32	200	20.75	24.70	31.20	40.50

**Panels with main lugs at bottom and fusible connections at top.**



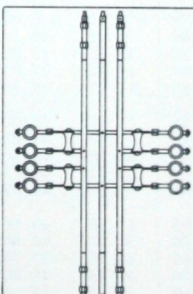
4	24	\$ 5.95	\$11.10	\$21.70
6	33	6.25	11.30	21.10
8	42	6.05	14.05	21.30
10	50	6.30	14.45	21.70
12	58	6.70	15.30	22.55
14	66	4.40	13.50	20.75
16	72	10.15	13.95	21.20
18	77	10.50	14.25	21.50
20	81	10.50	14.25	21.50
22	85	10.90	14.70	21.90
24	88	11.10	14.90	22.15
26	91	11.25	15.30	22.25
28	94	11.70	15.75	22.80
30	97	12.10	16.20	23.40
32	100	12.60	16.60	24.00

**Panels with main fusible connections at bottom and fusible connections at top.**



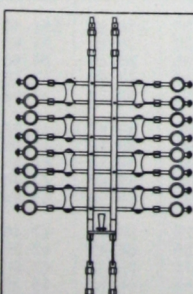
4	48	\$ 7.20	\$14.35	\$20.45	\$44.50
6	66	9.65	12.45	18.55	47.20
8	84	9.75	12.60	18.65	49.60
10	100	9.85	12.70	18.75	50.15
12	116	3.95	6.80	34.10	41.85
14	132	3.95	6.80	35.15	42.90
16	144	3.95	29.70	35.80	43.50
18	154	3.95	31.25	37.35	45.10
20	162	3.95	31.25	37.35	45.10
22	170	3.95	31.80	37.90	45.60
24	176	29.50	32.30	38.40	46.20
26	182	10.10	32.90	39.20	47.00
28	188	30.90	33.40	39.70	47.50
30	194	31.10	33.70	40.50	47.90
32	200	31.50	34.40	41.10	48.50

**Panels with main fusible connections at bottom and fusible connections at top.**



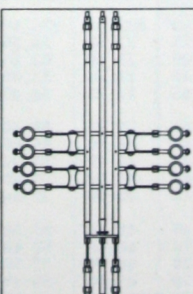
4	24	\$ 7.20	\$13.45	\$27.70
6	33	8.40	12.15	27.40
8	42	8.60	21.70	28.95
10	50	9.20	22.30	29.50
12	58	9.45	22.80	30.00
14	66	4.40	18.35	25.60
16	72	14.90	18.65	25.90
18	77	15.20	19.00	26.25
20	81	15.20	19.00	26.25
22	85	15.40	19.20	26.45
24	88	15.75	19.50	26.75
26	91	16.00	20.10	27.35
28	94	16.25	21.00	28.20
30	97	16.70	21.50	28.60
32	100	17.20	22.25	29.35

**Panels with fusible main switch at bottom and fusible connections at top.**



4	48	\$10.15	\$21.60	\$27.70	\$61.50
6	66	10.25	22.10	28.10	62.40
8	84	14.80	17.60	23.70	66.10
10	100	15.00	17.85	23.90	66.60
12	116	3.95	6.80	46.00	53.50
14	132	3.95	6.80	47.00	52.70
16	144	3.95	41.40	47.50	55.30
18	154	3.95	42.00	48.00	55.80
20	162	3.95	42.00	48.00	55.80
22	170	3.95	42.50	48.60	56.20
24	176	40.10	42.90	47.00	56.80
26	182	41.00	43.50	47.60	57.25
28	188	41.40	43.80	48.20	57.90
30	194	42.20	44.50	49.10	58.20
32	200	42.70	45.20	50.50	59.00

**Panels with fusible main switch at bottom and fusible connections at top.**



4	24	\$ 9.45	\$21.90	\$40.40
6	33	9.55	22.10	40.80
8	42	13.40	32.50	39.70
10	50	13.65	34.95	42.20
12	58	14.00	35.20	42.00
14	66	4.40	22.85	30.10
16	72	19.40	23.20	30.45
18	77	19.60	23.40	30.60
20	81	19.60	23.40	30.60
22	85	19.95	23.70	30.90
24	88	20.15	23.90	31.15
26	91	20.70	24.25	31.75
28	94	21.20	24.80	32.40
30	97	21.60	25.40	33.00
32	100	22.30	25.90	33.60

Only when sub-feed panels are used to be feed from one panel to another can the ampere capacity of the conductors between the panels be reduced to a smaller size than those feeding the sub-feed panel. Thru-feed and double main lug panels do not permit of a reduction in the carrying capacity of cables feeding to or from them.



## Sub-Feed Panels with Cabinets

### *Fusible Switch Connections at the Top*

Additional List Prices to be Added to List Prices of Panels with Cabinets,  
Scheduled on Pages 8 to 37, Inclusive

2 Wire Mains	No. Cir.	Std. Cap. Bus Bars Amps	Additional list prices for fusible switch sub-feed connections having capacity of				3 Wire Mains	No. Cir.	Std. Cap. Bus Bars Amps	Additional list prices for fusible switch sub- feed connections having capacity of		
			30 Amps.	60 Amps.	100 Amps.	200 Amps.				30 Amps.	60 Amps.	100 Amps.

**Panels with main lugs at bottom and fusible switch connections at top.**

	4	48	\$ 8.40	\$15.60	\$24.65	\$44.20
	6	66	8.60	16.05	25.05	44.70
	8	84	10.35	15.20	23.75	45.50
	10	100	10.70	15.50	24.05	46.00
	12	116	7.45	12.25	32.75	45.90
	14	132	7.45	12.25	33.70	46.50
	16	144	7.45	27.60	36.60	49.40
	18	154	7.45	28.20	37.25	50.00
	20	162	7.45	28.20	37.25	50.00
	22	170	7.45	28.55	37.50	50.40
	24	176	24.25	29.05	38.10	50.90
	26	182	24.60	29.55	38.60	51.40
	28	188	25.00	30.20	39.00	51.80
	30	194	25.40	30.70	39.50	52.40
	32	200	25.90	31.20	40.10	53.00

**Panels with main lugs at bottom and fusible switch connections at top.**

	4	24	\$10.50	\$18.05	\$32.95
	6	33	10.60	18.25	33.10
	8	42	10.60	21.00	32.40
	10	50	10.80	21.40	32.90
	12	58	11.20	22.25	33.70
	14	66	8.90	20.45	31.90
	16	72	14.70	20.85	32.30
	18	77	15.00	21.20	32.60
	20	81	15.00	21.20	32.60
	22	85	15.40	21.60	33.00
	24	88	15.60	21.80	33.20
	26	91	15.90	22.20	33.60
	28	94	16.20	22.70	33.90
	30	97	16.60	23.00	34.40
	32	100	17.10	23.50	34.90

**Panels with main fuse connections at bottom and fusible switch connections at top.**

	4	48	\$10.70	\$19.80	\$28.85	\$57.90
	6	66	11.00	20.25	29.25	58.90
	8	84	13.20	18.05	27.05	63.10
	10	100	13.30	19.05	27.05	63.60
	12	116	7.45	12.25	42.50	55.30
	14	132	7.45	12.25	43.00	55.80
	16	144	7.45	35.15	44.20	57.00
	18	154	7.45	36.75	45.75	58.50
	20	162	7.45	36.75	45.75	58.50
	22	170	7.45	37.25	46.30	59.10
	24	176	32.95	37.80	46.60	59.60
	26	182	33.20	38.40	47.00	60.30
	28	188	33.60	38.90	47.50	60.70
	30	194	34.00	39.40	48.00	61.20
	32	200	34.40	39.80	48.60	61.80

**Panels with main fuse connections at bottom and fusible switch connections at top.**

	4	24	\$11.75	\$21.30	\$38.30
	6	33	11.85	21.40	39.35
	8	42	13.10	28.65	40.10
	10	50	13.75	29.15	40.60
	12	58	13.95	29.70	41.15
	14	66	8.90	25.30	36.75
	16	72	19.40	25.60	37.05
	18	77	19.70	25.90	36.35
	20	81	19.70	25.90	36.35
	22	85	19.95	26.10	37.55
	24	88	20.25	26.40	37.85
	26	91	20.50	26.70	38.10
	28	94	21.10	27.30	38.50
	30	97	21.60	27.80	39.00
	32	100	22.20	28.40	39.60

**Panels with main fusible switch connections at bottom and fusible switch connections at top.**

	4	48	\$13.65	\$27.05	\$36.10	\$74.90
	6	66	13.75	27.50	36.50	75.80
	8	84	18.25	23.10	32.10	79.60
	10	100	18.45	23.30	32.30	79.90
	12	116	7.45	12.25	54.40	67.30
	14	132	7.45	12.25	55.40	68.20
	16	144	7.45	46.90	55.90	68.70
	18	154	7.45	46.90	55.90	68.70
	20	162	7.45	47.90	57.00	69.80
	22	170	7.45	48.40	57.50	70.30
	24	176	7.45	48.40	57.50	70.30
	26	182	43.70	48.40	57.40	70.20
	28	188	44.20	48.90	57.90	70.70
	30	194	44.70	49.40	58.40	71.20
	32	200	45.20	49.90	58.90	71.70

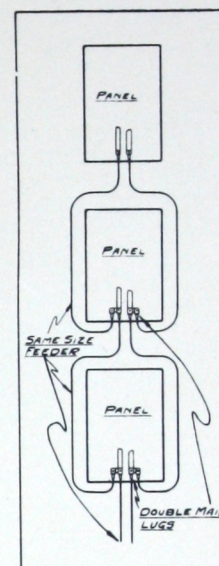
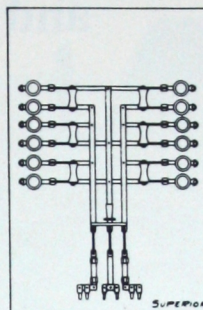
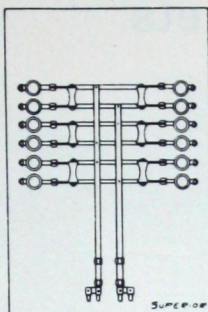
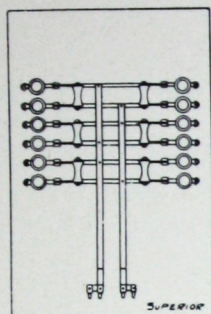
**Panels with main fusible switch connections at bottom and fusible switch connections at top.**

	4	24	\$13.95	\$28.85	\$51.50
	6	33	14.05	28.95	51.90
	8	42	17.95	39.45	50.90
	10	50	18.15	41.85	53.30
	12	58	18.55	42.20	53.60
	14	66	8.90	29.80	41.25
	16	72	23.90	30.10	41.55
	18	77	23.90	30.10	41.55
	20	81	23.45	30.60	42.10
	22	85	23.75	30.90	42.40
	24	88	23.75	30.90	42.40
	26	91	24.65	30.85	42.30
	28	94	25.15	31.35	42.80
	30	97	25.65	31.85	43.30
	32	100	26.15	32.35	43.80

Only when sub-feed panels are used to feed from one panel to another can the ampere capacity of the conductors between the panels be reduced to a smaller size than those feeding the sub-feed panel. Thru-feed and double main lug panels do not permit of a reduction in the carrying capacity of cables feeding to or from them.



## Lighting Panelboards with Double Main Lugs



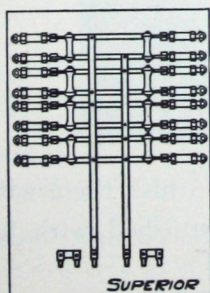
In many cases lighting panelboards can be equipped with double main lugs instead of thru-feeds and a great saving in space and money is usually secured by their use. When using panelboards with double main lugs the wire size should remain the same when entering and leaving the panelboard.

The following list prices should be added to the combination panelboard and cabinet prices on Pages 8 to 37 inclusive to get the correct list price for panelboards with double main lugs.

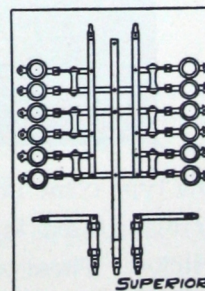
Kind of mains	Capacity of panelboard mains in amperes			
	30	60	100	200
2 pole	\$1.50	\$2.25	\$3.75	\$4.50
3 pole	3.00	3.75	4.50	6.00

## Meter Loops for Standard Panelboards

The list prices given below should be added to the combined list prices for standard panelboards and cabinets when meter loops are desired built into the panel. The standard panelboard prices are those scheduled on pages 8 to 37 inclusive.



Two Wire Mains

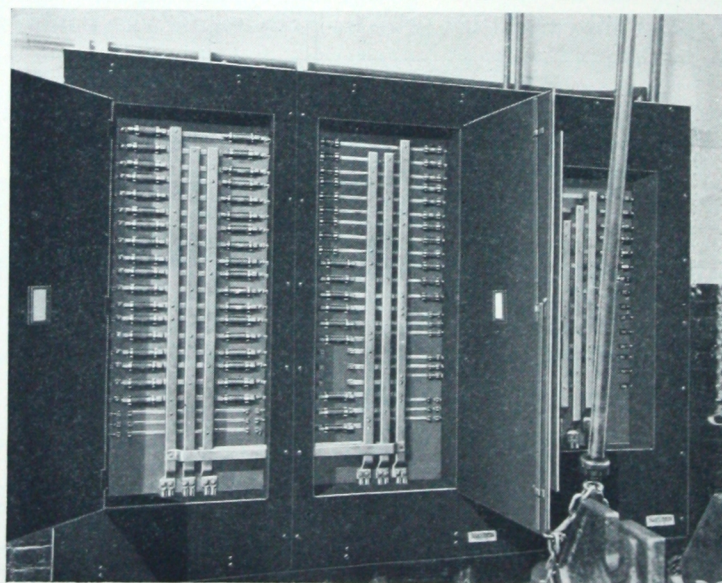
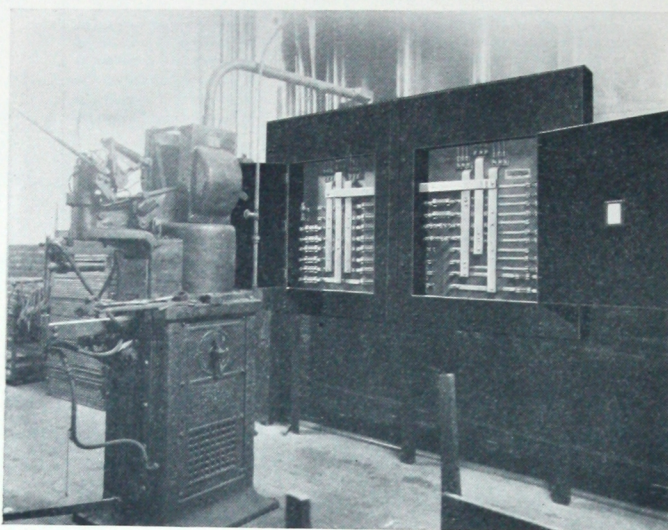


Three Wire Mains

No. of Circuits	Additional List Prices	No. of Circuits	Additional List Prices
4	\$2.00	4	\$2.10
6-10	2.20	6-12	2.30
12-32	2.60	14-32	2.70



## Live Front Type Feeder Distribution Panels and Cabinets



Panels of this type come in many styles and sizes. We can furnish them with main lugs, main switches or main fused knife switches. Branches can be furnished with fuses, switches or fused knife switches. These panels are all built to specifications.

We require the following information:

Voltage, AC or DC.

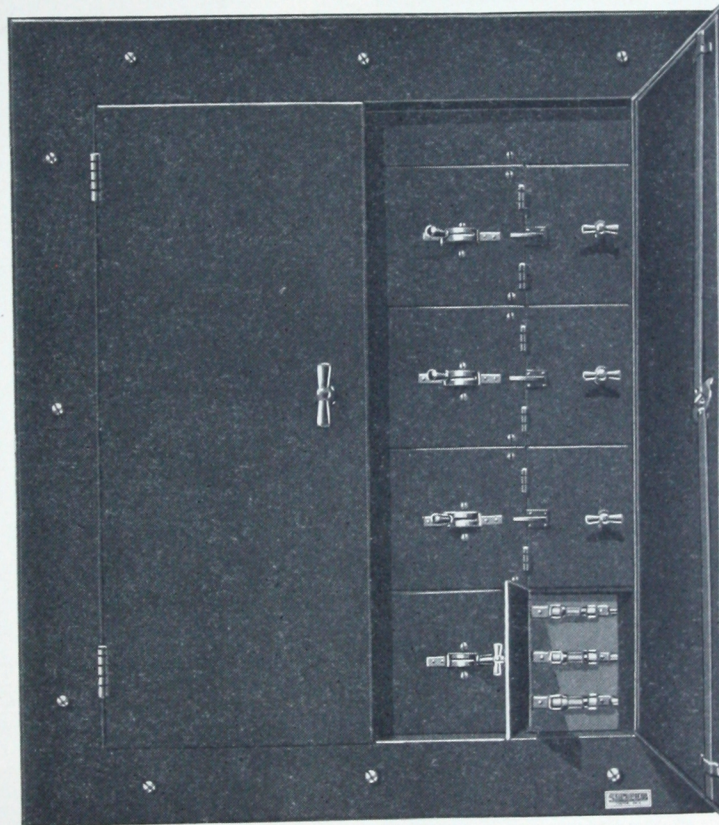
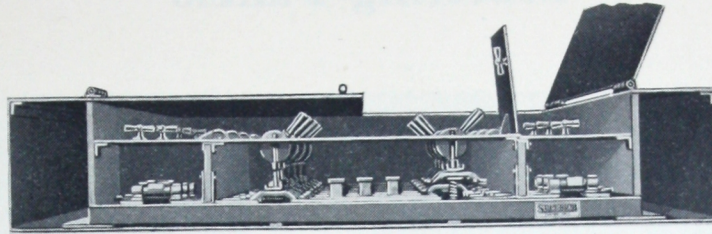
Kind, number of poles, number and capacity of branches.

Kind of mains and number of poles in mains.

Whether cabinet is for flush or surface mounting.



## Safety Type Feeder Distribution Panels



The photograph shown above illustrates safety type, interlocking, feeder distribution panels. These panels are made with either main lugs and branch switches or main switches and branch switches. All switches are brush type and can be furnished in two, three or four poles, either fused or unfused in 30, 60, 100, 200, 400, and 600 ampere capacities. These panels can be furnished for operation on 125 or 250 volts AC or DC and for 500 volts AC.

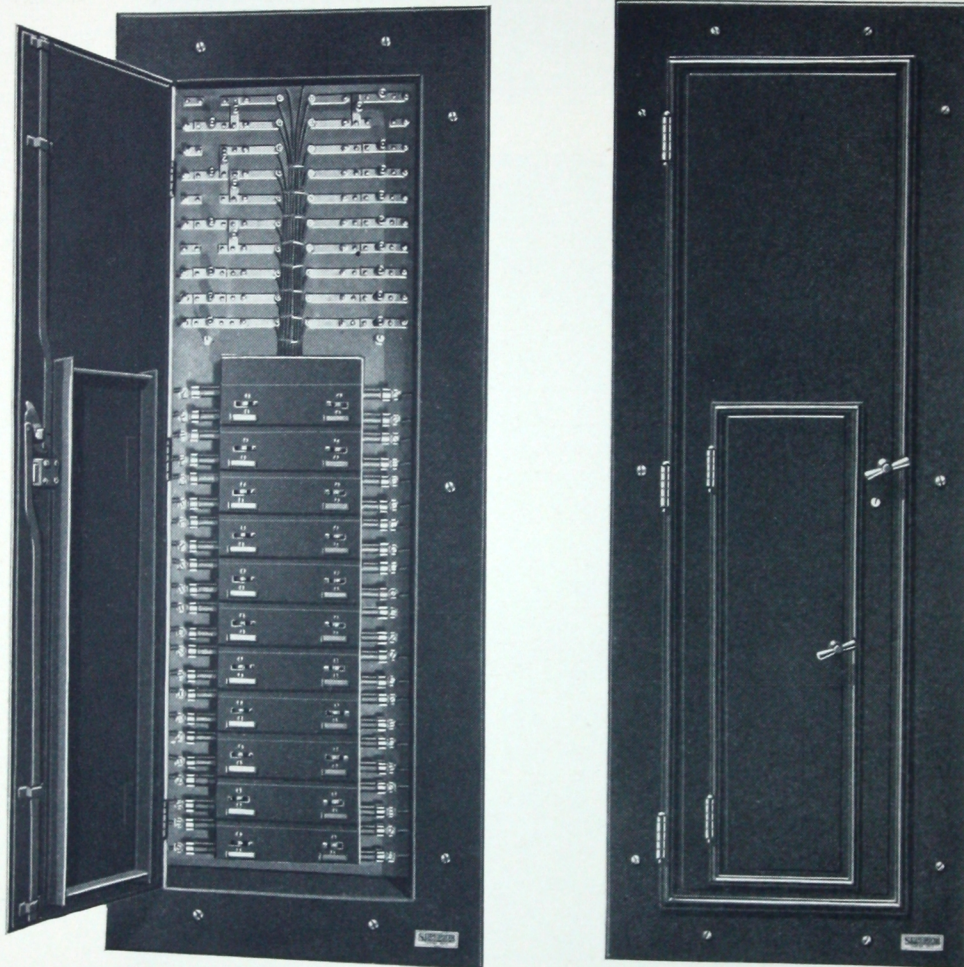
Safety Type Feeder Distribution Panels are made in two types, interlocking and standard. The interlocking type has a separate door over each set of fuses, which door cannot be opened unless the switch is in the off position. Barriers prevent access to the switch controlling the fuses.

Standard Safety Type Feeder Distribution Panels are of the same construction as the interlocking type, but the interlocking feature itself is omitted and the type DD steel front is furnished. The smaller door allows access to the operating handles of all switches and the larger door allows access to all switches and fuses.

Prices on safety type feeder distribution panels will be quoted on application. Your order or inquiry should state whether standard or interlocking panel is wanted, the type and size of mains, the type, size and number of branches, voltage, AC or DC, and whether cabinet is for surface or flush mounting.



## Metering Panels



Metering panels and cabinets with or without additional cabinets for enclosing the meters themselves are a very necessary adjunct to the electrical equipment of the modern office building. A metering panel permits metering of any office or offices on any one floor, without disturbing the circuit connections. The wiring layout should be so designed that a separate circuit is allotted to each section and space that may be rented as a unit.

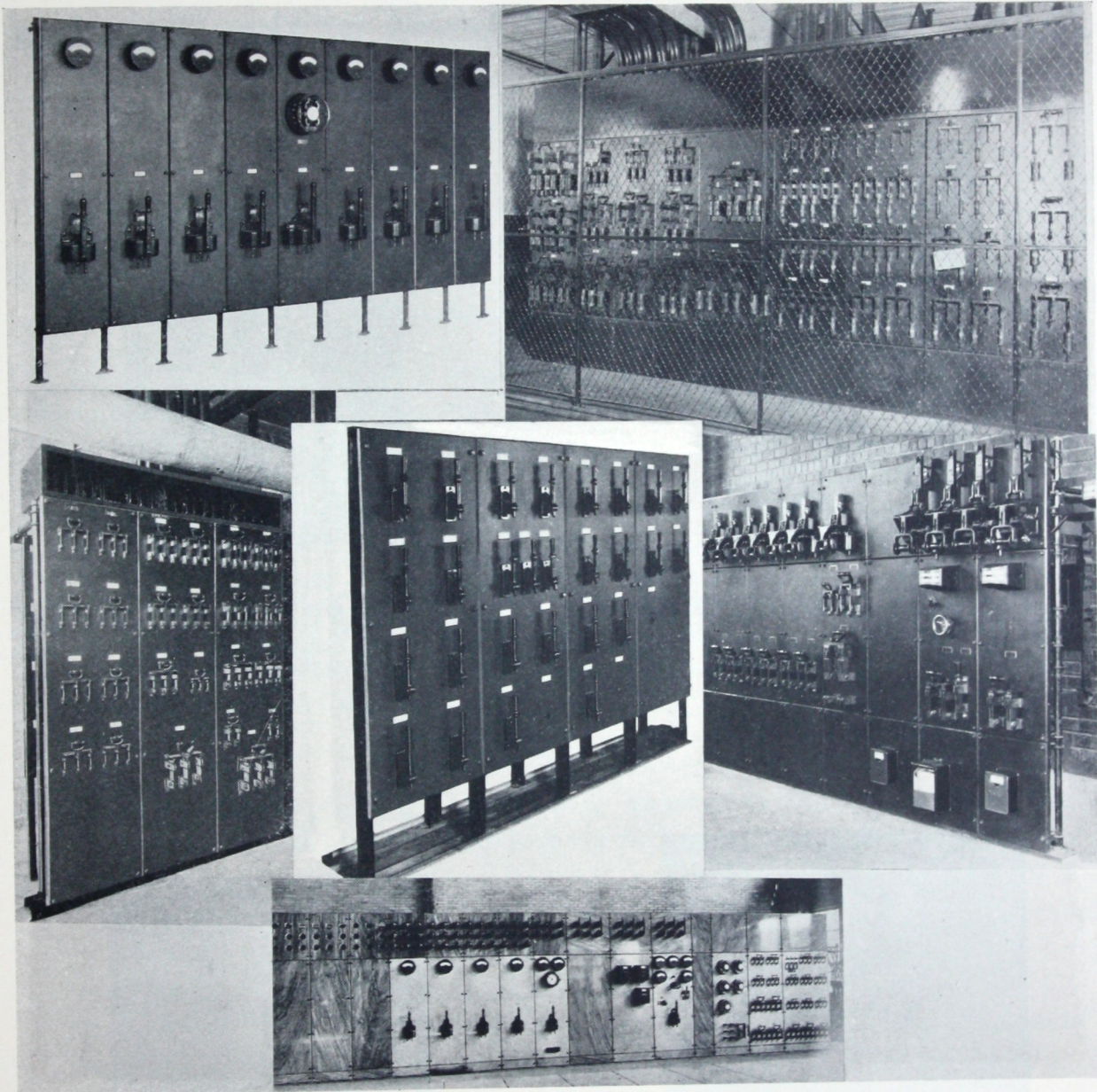
When a metering panel is used, the owner is not only saved the expense of changing wiring every time a new tenant is installed but the waste of current by the tenant is charged directly to the tenant himself.

Superior Metering Panels are designed so that they may be sealed and theft of current prevented.

Prices on metering panels will be quoted upon receipt of your inquiry showing number of panels, number of circuits to each panel, and number of meters to each panel.



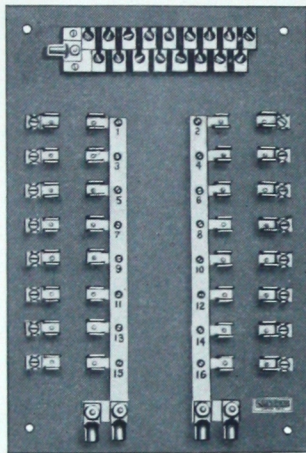
## Switchboards



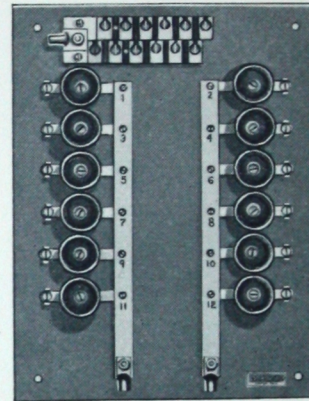
Switchboards are made in many types and sizes. We manufacture them for lighting and power, interlocking theatre stage lighting boards, battery charging boards and special boards of all kinds. The switchboard is the heart of the modern electrical distribution system, and should be of very best quality of material and workmanship. Superior Switchboards embody not only the latest engineering practice but careful workmanship and first quality material.



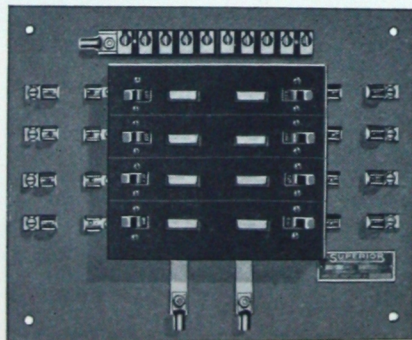
## Lighting Panelboards with Solid Neutrals, Single Pole Switches and Fuses in the Branches



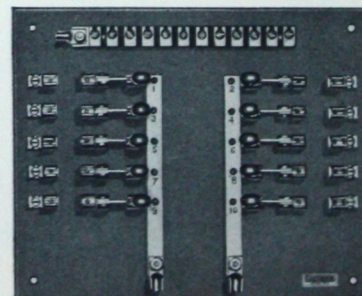
The Cat. No. 20016 panel illustrated above is described and listed on page 32 of this book.



The Cat. No. 21012 panel illustrated above is described and listed on page 33 of this book. This panel, however, is equipped with double main lugs, which can be used as thru-feeds.



This Cat. No. 24008 panel is described and listed on page 36 of this book. All the branch tumbler switches are single pole.



This Cat. No. 22010 panel is described and listed on page 34 of this book. Branch knife switches are all single pole.



## Lighting Panelboards with Solid Neutral Branches



THESE lighting panelboards are furnished in 3-2 wire type only, either live front or dead front and with *single pole fuses and switches in the branches*. All branch neutrals are connected to their main feeders through a connection block that is mounted on each panel.

Lighting panelboards with solid neutrals and single pole fusing are now permitted under the conditions of paragraph B, rule 807 of the 1923 National Electric Code, which reads as follows:

"By permission of the inspection department, on systems having a grounded neutral or having one side grounded, and where the grounded conductor is identified and properly connected, two wire branch circuits may be protected by a fuse in the ungrounded wire, no fuse being placed in the grounded wire. Otherwise two wire branch circuits shall be protected by a fuse in each wire."

The following six pages give list prices, dimensions and descriptions of a complete line of solid neutral panelboards we have developed.

### SPECIFICATIONS

PANELS:	1" black marine finish slate.
BARRIERS:	1/2" black marine finish slate with adjustable corner supports.
BOX:	Guttered Type Code Gauge Steel.
FRONT:	Highly finished Code Gauge Steel, Flush or Surface.
KNOCKOUTS:	For standard knockouts see page 5.



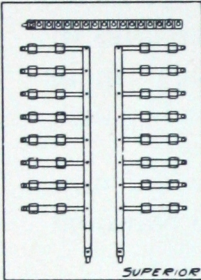
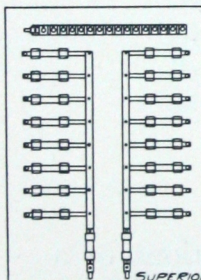
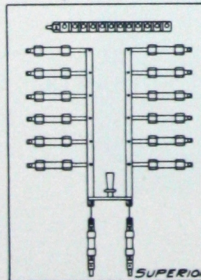
## Live Front Solid Neutral Panelboards

For use on identified, grounded neutral circuits.

3 Wire Mains. 2 Wire Branches.

**Type NC3—125-250 Volt**

BRANCHES: *Single pole* with 30 amp. cartridge fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
			Wide	High	Deep		
MAIN LUGS ONLY							
	8	20008	\$28.00	17	17	4 1/2	42
	10	20010	30.00	17	20	4 1/2	50
	12	20012	31.00	17	23	4 1/2	58
	14	20014	34.00	17	23	4 1/2	66
	16	20016	35.00	17	26	4 1/2	72
	18	20018	36.00	17	26	4 1/2	77
	20	20020	37.00	17	29	4 1/2	81
	22	20022	39.00	17	32	4 1/2	85
	24	20024	40.00	17	35	4 1/2	88
	26	20026	43.00	17	35	4 1/2	91
	28	20028	44.00	17	38	4 1/2	94
	30	20030	45.00	17	38	4 1/2	97
	32	20032	47.00	17	43	4 1/2	100
FUSES IN MAINS							
	8	20108	\$33.00	17	23	4 1/2	60
	10	20110	36.00	17	23	4 1/2	60
	12	20112	39.00	17	26	4 1/2	60
	14	20114	40.00	17	32	4 1/2	100
	16	20116	41.00	17	32	4 1/2	100
	18	20118	43.00	17	35	4 1/2	100
	20	20120	44.00	17	35	4 1/2	100
	22	20122	45.00	17	42	4 1/2	100
	24	20124	46.00	17	42	4 1/2	100
	26	20126	47.00	17	42	4 1/2	100
	28	20128	48.00	17	45	4 1/2	100
	30	20130	51.00	17	45	4 1/2	100
	32	20132	53.00	17	48	4 1/2	100
FUSED SWITCH IN MAINS							
	8	20308	\$44.00	17	29	4 1/2	60
	10	20310	46.00	17	29	4 1/2	60
	12	20312	49.00	17	32	4 1/2	60
	14	20314	50.00	17	38	4 1/2	100
	16	20316	51.00	17	38	4 1/2	100
	18	20318	54.00	17	41	4 1/2	100
	20	20320	56.00	17	41	4 1/2	100
	22	20322	58.00	17	47	4 1/2	100
	24	20324	60.00	17	47	4 1/2	100
	26	20326	62.00	17	50	4 1/2	100
	28	20328	64.00	17	50	4 1/2	100
	30	20330	67.00	17	53	4 1/2	100
	32	20332	69.00	17	56	4 1/2	100

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5. **Panels are not manufactured for less than eight branch circuits.**

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**



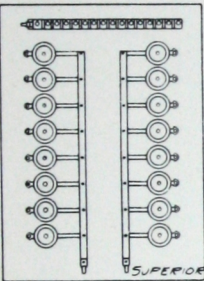
## Live Front Solid Neutral Panelboards

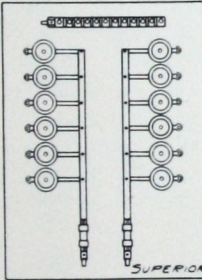
For use on identified, grounded neutral circuits.

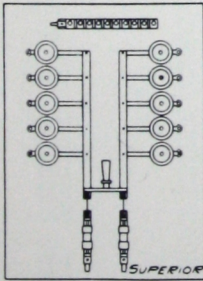
3 Wire Mains. 2 Wire Branches.

**Type NE3—125-250 Volt**

BRANCHES: *Single pole* with 30 amp. plug fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
			Wide	High	Deep		
MAIN LUGS ONLY							
	8	21008	\$28.00	17	17	4½	42
	10	21010	30.00	17	20	4½	50
	12	21012	31.00	17	23	4½	58
	14	21014	34.00	17	23	4½	66
	16	21016	35.00	17	26	4½	72
	18	21018	36.00	17	26	4½	77
	20	21020	37.00	17	29	4½	81
	22	21022	39.00	17	32	4½	85
	24	21024	40.00	17	35	4½	88
	26	21026	43.00	17	35	4½	91
	28	21028	44.00	17	38	4½	94
	30	21030	45.00	17	38	4½	97
	32	21032	47.00	17	43	4½	100

FUSES IN MAINS							
	8	21108	\$33.00	17	23	4 1/2	60
	10	21110	36.00	17	23	4 1/2	60
	12	21112	39.00	17	26	4 1/2	60
	14	21114	40.00	17	32	4 1/2	100
	16	21116	41.00	17	32	4 1/2	100
	18	21118	43.00	17	35	4 1/2	100
	20	21120	44.00	17	35	4 1/2	100
	22	21122	45.00	17	42	4 1/2	100
	24	21124	46.00	17	42	4 1/2	100
	26	21126	47.00	17	42	4 1/2	100
	28	21128	48.00	17	45	4 1/2	100
	30	21130	51.00	17	45	4 1/2	100
	32	21132	53.00	17	48	4 1/2	100

FUSED SWITCH IN MAINS							
	8	21308	\$44.00	17	29	4 1/2	60
	10	21310	46.00	17	29	4 1/2	60
	12	21312	49.00	17	32	4 1/2	60
	14	21314	50.00	17	38	4 1/2	100
	16	21316	51.00	17	38	4 1/2	100
	18	21318	54.00	17	41	4 1/2	100
	20	21320	56.00	17	41	4 1/2	100
	22	21322	58.00	17	47	4 1/2	100
	24	21324	60.00	17	47	4 1/2	100
	26	21326	62.00	17	50	4 1/2	100
	28	21328	64.00	17	50	4 1/2	100
	30	21330	67.00	17	53	4 1/2	100
	32	21332	69.00	17	56	4 1/2	100

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5. **Panels are not manufactured for less than eight branch circuits.**

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**



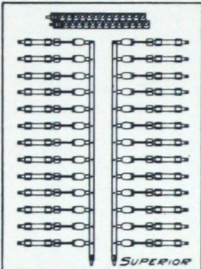
## Live Front Solid Neutral Panelboards

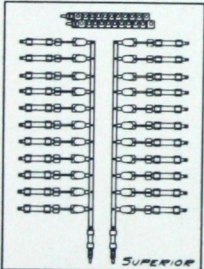
For use on identified, grounded neutral circuits.

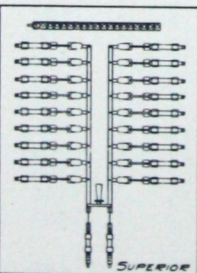
3 Wire Mains. 2 Wire Branches.

**Type NKC3—125-250 Volt**

BRANCHES: *Single pole* with 30 amp. knife switch and cartridge fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
			Wide	High	Deep		
MAIN LUGS ONLY							
	8	22008	\$33.00	21	17	4½	42
	10	22010	36.00	21	20	4½	50
	12	22012	38.00	21	20	4½	58
	14	22014	44.00	21	23	4½	66
	16	22016	45.00	21	23	4½	72
	18	22018	47.00	21	26	4½	77
	20	22020	49.00	21	29	4½	81
	22	22022	50.00	21	29	4½	85
	24	22024	51.00	21	32	4½	88
	26	22026	52.00	21	32	4½	91
	28	22028	53.00	21	35	4½	94
	30	22030	56.00	21	35	4½	97
	32	22032	58.00	21	38	4½	100

FUSES IN MAINS							
	8	22108	\$39.00	21	23	4 1/2	60
	10	22110	43.00	21	23	4 1/2	60
	12	22112	44.00	21	26	4 1/2	60
	14	22114	49.00	21	32	4 1/2	100
	16	22116	51.00	21	32	4 1/2	100
	18	22118	52.00	21	35	4 1/2	100
	20	22120	57.00	21	35	4 1/2	100
	22	22122	59.00	21	38	4 1/2	100
	24	22124	60.00	21	38	4 1/2	100
	26	22126	62.00	21	41	4 1/2	100
	28	22128	63.00	21	41	4 1/2	100
	30	22130	64.00	21	44	4 1/2	100
	32	22132	65.00	21	44	4 1/2	100

FUSED SWITCH IN MAINS							
	8	22308	\$52.00	21	29	4 1/2	60
	10	22310	54.00	21	29	4 1/2	60
	12	22312	56.00	21	32	4 1/2	60
	14	22314	58.00	21	38	4 1/2	100
	16	22316	60.00	21	38	4 1/2	100
	18	22318	65.00	21	41	4 1/2	100
	20	22320	70.00	21	41	4 1/2	100
	22	22322	71.00	21	44	4 1/2	100
	24	22324	73.00	21	44	4 1/2	100
	26	22326	75.00	21	47	4 1/2	100
	28	22328	77.00	21	47	4 1/2	100
	30	22330	79.00	21	50	4 1/2	100
	32	22332	81.00	21	50	4 1/2	100

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5. **Panels are not manufactured for less than eight branch circuits.**

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**



## Live Front Solid Neutral Panelboards

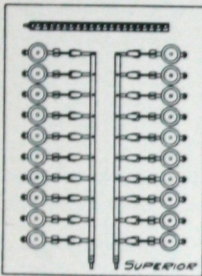
For use on identified, grounded neutral circuits

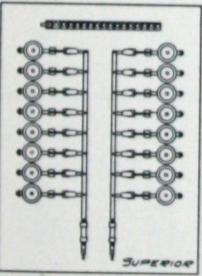
3 Wire Mains. 2 Wire Branches.

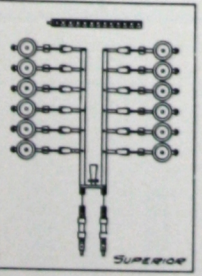
**Type NKE3—125-250 Volt**

BRANCHES: *Single pole* with 30 amp. knife switch and plug fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes
			Wide	High	Deep	

MAIN LUGS ONLY							
	8	23008	\$33.00	21	17	4 1/2	42
	10	23010	36.00	21	20	4 1/2	50
	12	23012	38.00	21	20	4 1/2	58
	14	23014	44.00	21	23	4 1/2	66
	16	23016	45.00	21	23	4 1/2	72
	18	23018	47.00	21	26	4 1/2	77
	20	23020	49.00	21	29	4 1/2	81
	22	23022	50.00	21	29	4 1/2	85
	24	23024	51.00	21	32	4 1/2	88
	26	23026	52.00	21	32	4 1/2	91
	28	23028	53.00	21	35	4 1/2	94
	30	23030	56.00	21	35	4 1/2	97
	32	23032	58.00	21	38	4 1/2	100

FUSES IN MAINS							
	8	23108	\$39.00	21	23	4 1/2	60
	10	23110	43.00	21	23	4 1/2	60
	12	23112	44.00	21	26	4 1/2	60
	14	23114	49.00	21	32	4 1/2	100
	16	23116	51.00	21	32	4 1/2	100
	18	23118	52.00	21	35	4 1/2	100
	20	23120	57.00	21	35	4 1/2	100
	22	23122	59.00	21	38	4 1/2	100
	24	23124	60.00	21	38	4 1/2	100
	26	23126	62.00	21	41	4 1/2	100
	28	23128	63.00	21	41	4 1/2	100
	30	23130	64.00	21	44	4 1/2	100
	32	23132	65.00	21	44	4 1/2	100

FUSED SWITCH IN MAINS							
	8	23308	\$52.00	21	29	4 1/2	60
	10	23310	54.00	21	29	4 1/2	60
	12	23312	56.00	21	32	4 1/2	60
	14	23314	58.00	21	38	4 1/2	100
	16	23316	60.00	21	38	4 1/2	100
	18	23318	65.00	21	41	4 1/2	100
	20	23320	70.00	21	41	4 1/2	100
	22	23322	71.00	21	44	4 1/2	100
	24	23324	73.00	21	44	4 1/2	100
	26	23326	75.00	21	47	4 1/2	100
	28	23328	77.00	21	47	4 1/2	100
	30	23330	79.00	21	50	4 1/2	100
	32	23332	81.00	21	50	4 1/2	100

Panels with unfused main switches same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type NL cabinet see page 5. **Panels are not manufactured for less than eight branch circuits.**

**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**

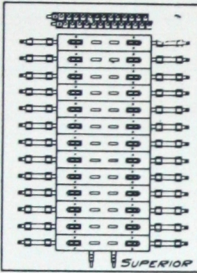
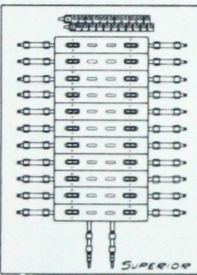
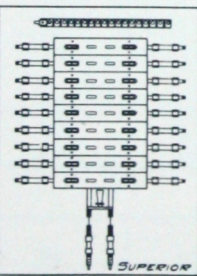
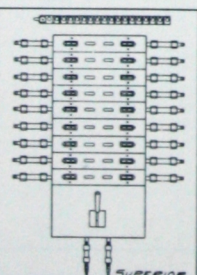


## Dead Front Solid Neutral Panelboards

For use on identified, grounded neutral circuits.  
3 Wire Mains. 2 Wire Branches.

**Type NTC3—125-250 Volt**

BRANCHES: *Single pole* with 30 amp. tumbler switch and cartridge fuse connections.

	Number of circuits	Catalogue number	Panel with barrier and type DD flush or surface steel cabinet	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
					Wide	High	Deep		
MAIN LUGS ONLY									
	8	24008	\$45.00	\$40.00	21	17	4 1/2	42	
	10	24010	53.00	45.00	21	20	4 1/2	50	
	12	24012	55.00	48.00	21	20	4 1/2	58	
	14	24014	61.00	54.00	21	23	4 1/2	66	
	16	24016	62.00	55.00	21	23	4 1/2	72	
	18	24018	68.00	58.00	21	26	4 1/2	77	
	20	24020	69.00	59.00	21	29	4 1/2	81	
	22	24022	72.00	62.00	21	29	4 1/2	85	
	24	24024	74.00	64.00	21	32	4 1/2	88	
	26	24026	76.00	66.00	21	32	4 1/2	91	
	28	24028	78.00	68.00	21	35	4 1/2	94	
	30	24030	80.00	73.00	21	35	4 1/2	97	
	32	24032	84.00	77.00	21	38	4 1/2	100	
	FUSES IN MAINS								
		8	24108	\$53.00	\$46.00	21	23	4 1/2	60
		10	24110	60.00	52.00	21	23	4 1/2	60
12		24112	61.00	54.00	21	26	4 1/2	60	
14		24114	63.00	61.00	21	32	4 1/2	100	
16		24116	65.00	62.00	21	32	4 1/2	100	
18		24118	69.00	64.00	21	35	4 1/2	100	
20		24120	75.00	66.00	21	35	4 1/2	100	
22		24122	79.00	69.00	21	38	4 1/2	100	
24		24124	80.00	71.00	21	38	4 1/2	100	
26		24126	82.00	73.00	21	41	4 1/2	100	
28		24128	86.00	76.00	21	41	4 1/2	100	
30		24130	89.00	81.00	21	44	4 1/2	100	
32		24132	93.00	85.00	21	44	4 1/2	100	
FUSED KNIFE SWITCH IN MAINS									
		8	24308	\$ 69.00	\$ 59.00	21	29	4 1/2	60
		10	24310	71.00	62.00	21	29	4 1/2	60
	12	24312	76.00	65.00	21	32	4 1/2	60	
	14	24314	79.00	70.00	21	38	4 1/2	100	
	16	24316	83.00	73.00	21	38	4 1/2	100	
	18	24318	92.00	81.00	21	41	4 1/2	100	
	20	24320	95.00	86.00	21	41	4 1/2	100	
	22	24322	97.00	89.00	21	44	4 1/2	100	
	24	24324	99.00	90.00	21	44	4 1/2	100	
	26	24326	101.00	93.00	21	47	4 1/2	100	
	28	24328	103.00	95.00	21	47	4 1/2	100	
	30	24330	111.00	99.00	21	50	4 1/2	100	
	32	24332	116.00	103.00	21	50	4 1/2	100	
	FUSED BRUSH SWITCH IN MAINS (SAFETY TYPE)								
		8	24408	\$ 82.00	\$ 70.00	21	29	5 1/4	60
		10	24410	83.00	73.00	21	29	5 1/4	60
12		24412	87.00	76.00	21	32	5 1/4	60	
14		24414	92.00	82.00	21	38	5 1/4	100	
16		24416	96.00	85.00	21	38	5 1/4	100	
18		24418	100.00	88.00	21	41	5 1/4	100	
20		24420	102.00	91.00	21	41	5 1/4	100	
22		24422	103.00	93.00	21	44	5 1/4	100	
24		24424	105.00	95.00	21	44	5 1/4	100	
26		24426	106.00	96.00	21	47	5 1/4	100	
28		24428	109.00	99.00	21	47	5 1/4	100	
30		24430	115.00	103.00	21	50	5 1/4	100	
32		24432	120.00	106.00	21	50	5 1/4	100	

Panels with unfused main switches, same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type DD steel cabinet see page 5. Of NL see page 5. Panels are not manufactured for less than eight branch circuits.

FLUSH TYPE DD CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED



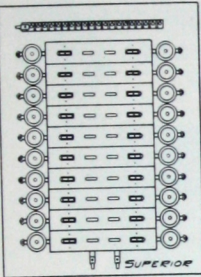
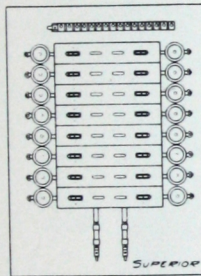
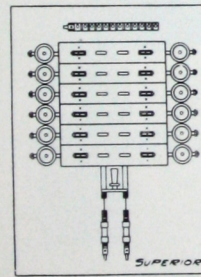
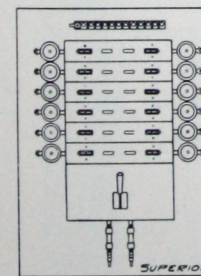
## Dead Front Solid Neutral Panelboards

For use on identified, grounded neutral circuits.

3 Wire Mains. 2 Wire Branches.

**Type NTE3—125-250 Volt**

BRANCHES: *Single pole* with 30 amp. tumbler switch and plug fuse connections.

Number of circuits	Catalogue number	Panel with barrier and type DD flush or surface steel cabinet	Panel with barrier and type NL flush or surface steel cabinet	Outside box dimensions in inches			Capacity of mains in amperes	
				Wide	High	Deep		
MAIN LUGS ONLY								
	8	25008	\$45.00	\$40.00	21	17	4 1/2	42
	10	25010	53.00	45.00	21	20	4 1/2	50
	12	25012	55.00	48.00	21	20	4 1/2	58
	14	25014	61.00	54.00	21	23	4 1/2	66
	16	25016	62.00	55.00	21	23	4 1/2	72
	18	25018	68.00	58.00	21	26	4 1/2	77
	20	25020	69.00	59.00	21	29	4 1/2	81
	22	25022	72.00	62.00	21	29	4 1/2	85
	24	25024	74.00	64.00	21	32	4 1/2	88
	26	25026	76.00	66.00	21	32	4 1/2	91
	26	25028	78.00	68.00	21	35	4 1/2	94
	30	25030	80.00	73.00	21	35	4 1/2	97
32	25032	84.00	77.00	21	38	4 1/2	100	
FUSES IN MAINS								
	8	25108	\$53.00	\$46.00	21	23	4 1/2	60
	10	25110	60.00	52.00	21	23	4 1/2	60
	12	25112	61.00	54.00	21	26	4 1/2	60
	14	25114	63.00	61.00	21	32	4 1/2	100
	16	25116	65.00	62.00	21	32	4 1/2	100
	18	25118	69.00	64.00	21	35	4 1/2	100
	20	25120	75.00	66.00	21	35	4 1/2	100
	22	25122	79.00	69.00	21	38	4 1/2	100
	24	25124	80.00	71.00	21	38	4 1/2	100
	26	25126	82.00	73.00	21	41	4 1/2	100
	28	25128	86.00	76.00	21	41	4 1/2	100
	30	25130	89.00	81.00	21	44	4 1/2	100
32	25132	93.00	85.00	21	44	4 1/2	100	
FUSED KNIFE SWITCH IN MAINS								
	8	25308	\$ 69.00	\$ 59.00	21	29	4 1/2	60
	10	25310	71.00	62.00	21	29	4 1/2	60
	12	25312	76.00	65.00	21	32	4 1/2	60
	14	25314	79.00	70.00	21	38	4 1/2	100
	16	25316	83.00	73.00	21	38	4 1/2	100
	18	25318	92.00	81.00	21	41	4 1/2	100
	20	25320	95.00	86.00	21	41	4 1/2	100
	22	25322	97.00	89.00	21	44	4 1/2	100
	24	25324	99.00	90.00	21	44	4 1/2	100
	26	25326	101.00	93.00	21	47	4 1/2	100
	28	25328	103.00	95.00	21	47	4 1/2	100
	30	25330	111.00	99.00	21	50	4 1/2	100
32	25332	116.00	103.00	21	50	4 1/2	100	
FUSED BRUSH SWITCH IN MAINS (SAFETY TYPE)								
	8	25408	\$ 82.00	\$ 70.00	21	29	5 1/4	60
	10	25410	83.00	73.00	21	29	5 1/4	60
	12	25412	87.00	76.00	21	32	5 1/4	60
	14	25414	92.00	82.00	21	38	5 1/4	100
	16	25416	96.00	85.00	21	38	5 1/4	100
	18	25418	100.00	88.00	21	41	5 1/4	100
	20	25420	102.00	91.00	21	41	5 1/4	100
	22	25422	103.00	93.00	21	44	5 1/4	100
	24	25424	105.00	95.00	21	44	5 1/4	100
	26	25426	106.00	96.00	21	47	5 1/4	100
	28	25428	109.00	99.00	21	47	5 1/4	100
	30	25430	115.00	103.00	21	50	5 1/4	100
32	25432	120.00	106.00	21	50	5 1/4	100	

Panels with unfused main switches, same list price as fused main switch panels. Catalogue number includes panel, barrier and cabinet. For meter loops see page 25. For sub-feeds see page 23. For thru-feeds see page 22. For description of type DD steel cabinet see page 5. Of NL see page 5. Panels are not manufactured for less than eight branch circuits.

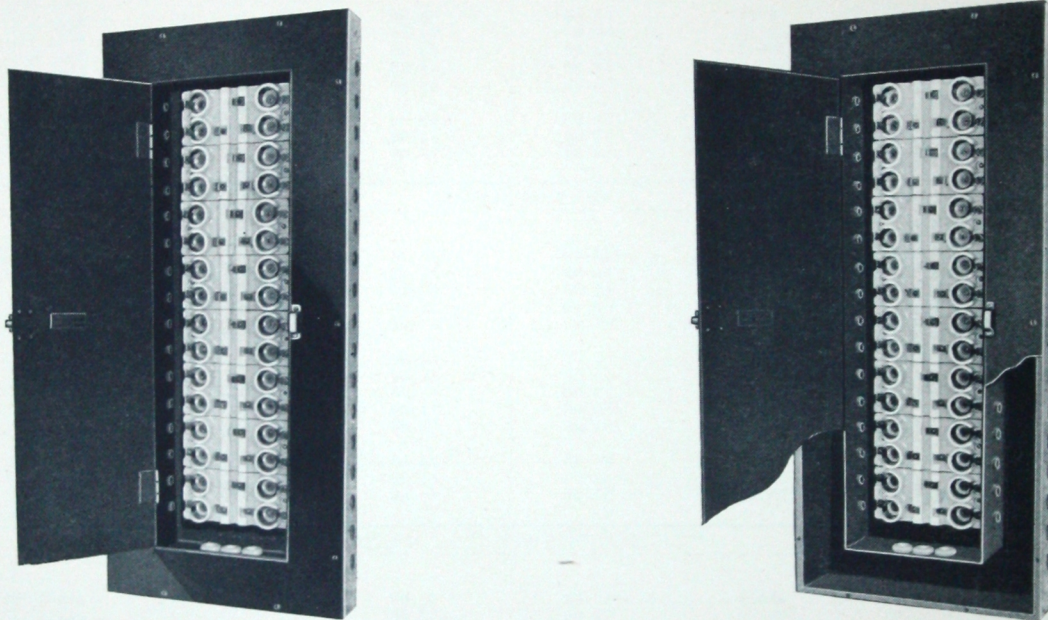
FLUSH TYPE DD CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED



## Guttered Type Steel Cabinets

**UNDERWRITERS' RULING:** The following listed cabinets have been developed to meet a demand for a steel cabinet with a steel gutter complying with the UNDERWRITERS' RULING No. 702-B which states that all cabinets enclosing panelboards or cutouts in excess of four circuits, not including the mains, must have back wiring spaces or side gutters, unless the wires leave the cabinets directly opposite their terminal connections.

These cabinets are primarily intended for use in locations where their substitution for a slate panelboard would not be objectionable tho appearance and lack of copper bus work is taken into consideration.



### *Description*

**CONSTRUCTION:** All cabinets are built of code gauge steel and bear the label of The National Board of Fire Underwriters.

**FINISH:** Standard finish is a black baked enamel.

**HARDWARE:** All cabinets have flush steel hinges and vault handles. Sub-treasury locks can be furnished for \$2.50 each list additional.

**GUTTERS:** All cabinets listed have steel gutter frames except those which accommodate Perkins dead front panel cutouts. Steel gutter frames have bushed holes opposite main and branch terminals. All gutters are 3" wide unless otherwise mentioned. Cabinets taking Perkins dead front panel cutouts are bridged with steel supports giving a wiring space back of and around panel cutouts.

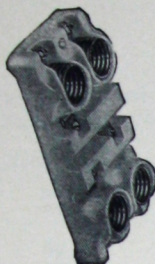
**STANDARD KNOCKOUTS:** Each cabinet has a single line of  $\frac{1}{2}$ " conduit knockouts, spaced for  $\frac{3}{4}$ " conduit in each of its four sides. Any additional knockouts or knockouts other than standard will be charged for at the rate of \$1.00 net for each cabinet. Additional or off standard knockouts can not be inserted unless drilling template accompanies order.



# SUPERIOR

SWITCHBOARD & DEVICES CO.

For 2 or 3 wire main, double branch, plug cutouts equal to Bryant No. 62587, 62199, 72199, 72587, 72087 and 72099.

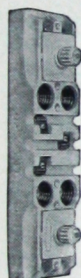


Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface	Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface
1	2901	10½x13½x3	\$10.80	7	2907	28½x13½x3	\$17.60
2	2902	13½x13½x3	11.60	8	2908	31½x13½x3	18.80
3	2903	16½x13½x3	12.40	9	2909	35½x13½x3	20.00
4	2904	19½x13½x3	13.20	10	2910	38½x13½x3	21.20
5	2905	22½x13½x3	14.00	11	2924	41½x13½x3	22.40
6	2906	25½x13½x3	16.40	12	2925	44½x13½x3	23.60



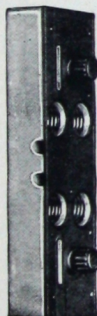
For 2 or 3 wire main, double branch panel switch cutouts same as Bryant No. 1852 and 1947. Also Bryant No. 2535 and 2536 panel cutouts N. E. C. fused, 10-A, 250 V. with open fronts and rotary switches. Also Bryant No. 18052, 19047, 25035 and 25036.

Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface	Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface
1	2911	10½x21x4	\$13.60	7	2917	28½x21x4	\$26.00
2	2912	13½x21x4	15.20	8	2918	31½x21x4	28.00
3	2913	16½x21x4	16.80	9	2919	35½x21x4	30.00
4	2914	19½x21x4	20.00	10	2920	38½x21x4	32.00
5	2915	22½x21x4	22.00	11	2921	41½x21x4	34.00
6	2916	25½x21x4	24.00	12	2922	44½x21x4	36.00



For 2 or 3 wire main, double branch, N. E. C. fuse cutouts equal to Bryant No. 1922 and 1923. Also No. 2300 and 2360. Rotary panel switches, open front. Also Bryant No. 19022, 19023, 23000 and 23060.

Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface	Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface
1	3931	10½x18x4	\$12.00	7	3937	28½x18x4	\$22.00
2	3932	13½x18x4	12.80	8	3938	31½x18x4	22.80
3	3933	16½x18x4	13.60	9	3939	35½x18x4	24.40
4	3934	19½x18x4	14.40	10	3940	38½x18x4	26.00
5	3935	22½x18x4	18.00	11	3941	41½x18x4	27.60
6	3936	25½x18x4	19.60	12	3942	44½x18x4	29.20



For Bryant No. 2599, 2699 and 2724 panel cutouts, dead front. These cabinets are for 2 wire main cutouts and have BACK WIRING SPACE. Also Bryant No. 25099, 26099 and 27024.

Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface	Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface
1	3701	10½x17x4	\$12.00	7	3707	28½x17x4	\$22.00
2	3702	13½x17x4	12.80	8	3708	31½x17x4	22.80
3	3703	16½x17x4	13.60	9	3709	35½x17x4	24.40
4	3704	19½x17x4	14.40	10	3710	38½x17x4	26.00
5	3705	22½x17x4	18.00	11	3711	41½x17x4	27.60
6	3706	25½x17x4	19.60	12	3712	44½x17x4	29.20



For Bryant No. 2600, 2700 and 2725 panel cutouts, dead front. These cabinets are for 3 wire main cutouts and have BACK WIRING SPACE. Also Bryant No. 26000, 27000 and 27025.

Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface	Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface
1	3721	10½x18x4	\$12.00	7	3727	28½x18x4	\$22.00
2	3722	13½x18x4	12.80	8	3728	31½x18x4	22.80
3	3723	16½x18x4	13.60	9	3729	35½x18x4	24.40
4	3724	19½x18x4	14.40	10	3730	38½x18x4	26.00
5	3725	22½x18x4	18.00	11	3731	41½x18x4	27.60
6	3726	25½x18x4	19.60	12	3732	44½x18x4	29.20

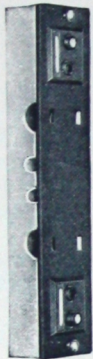
*Specify Flush or Surface Type*

No cutouts included in above prices. Cabinet backs are not drilled or tapped for mounting of cutouts.

FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED

*\*Please note that Number of Cutouts are specified and not Number of Circuits.*





For Bryant No. 2688, 2685 and 2727 panel cutouts, dead front. These cabinets are for 2 wire main cutouts and have BACK WIRING SPACE. Also Bryant No. 26088, 26085 and 27027.

Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface	Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface
1	3801	10½x20x4	\$13.60	7	3807	28½x20x4	\$26.00
2	3802	13½x20x4	15.20	8	3808	31½x20x4	28.00
3	3803	16½x20x4	16.80	9	3809	35½x20x4	30.00
4	3804	19½x20x4	20.00	10	3810	38½x20x4	32.00
5	3805	22½x20x4	22.00	11	3811	41½x20x4	34.00
6	3806	25½x20x4	24.00	12	3812	44½x20x4	36.00



For Bryant No. 2689, 2686 and 2728 panel cutouts, dead front. These cabinets are for 3 wire main cutouts and have BACK WIRING SPACE. Also Bryant No. 26089, 26086 and 27028.

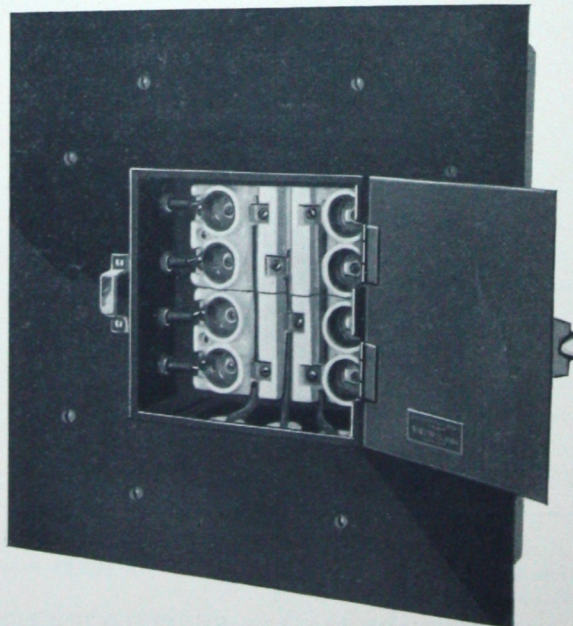
Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface	Number * of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price Flush or Surface
1	3821	10½x21x4	\$13.60	7	3827	28½x21x4	\$26.00
2	3822	13½x21x4	15.20	8	3828	31½x21x4	28.00
3	3823	16½x21x4	16.80	9	3829	35½x21x4	30.00
4	3824	19½x21x4	20.00	10	3830	38½x21x4	32.00
5	3825	22½x21x4	22.00	11	3831	41½x21x4	34.00
6	3826	25½x21x4	24.00	12	3832	44½x21x4	36.00

*Specify Flush or Surface Type*

No cutouts included in above prices. Cabinet backs are not drilled for tapping of cutouts.

FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED

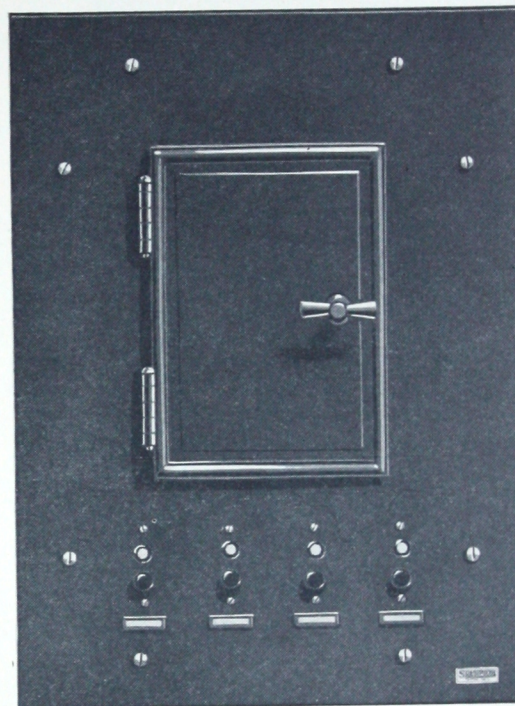
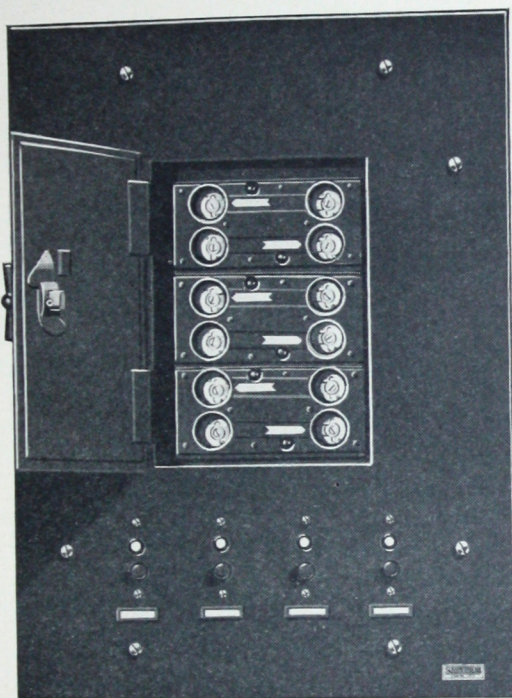
*\*Please note that Number of Cutouts are specified and not Number of Circuits.*





## Guttered Type Steel Cabinets

\*All cabinets listed on this page are punched for mounting push or tumbler switches.



For 2 or 3 wire main, double branch cutouts, equal to Bryant No. 62587, 62199, 72199, 72587, 72087 and 72099.

Number of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price each Flush or Surface	Number of Cutouts	Catalogue Number	Size of Cabinet in Inches	List Price each Flush or Surface
1	2926	13½x13½x3	\$16.80	4	2929	22½x13½x3	\$19.20
2	2927	16½x13½x3	17.60	5	2930	25½x13½x3	20.00
3	2928	19½x13½x3	18.40	6	2931	28½x13½x3	22.40

No cutouts or switches included in above prices.

Cabinet backs are not drilled or tapped for mounting of cutouts.

\*These cabinets are punched for any number of push or tumbler switches up to and including eight switches. We require information giving the make and catalogue number of switches you intend to use

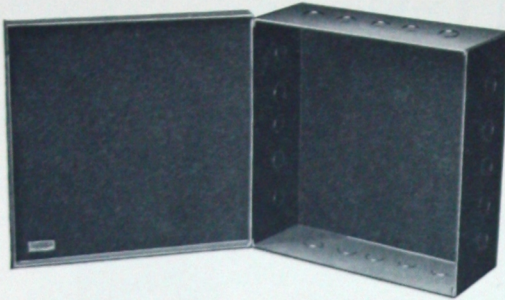
**FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**

*Specify Flush or Surface Type Cabinet*



# Surface Type Cutout Boxes

## Type CO



All surface type cutout boxes are carefully made of a high grade sheet steel. They are very solidly built and have a fine, glossy, black enameled finish. Every box is inspected and bears the Underwriters' label. Each box has a single row of  $\frac{1}{2}$ " knockouts spaced for  $\frac{3}{4}$ " conduit in each of its four sides. Any additional knockouts or knockouts other than standard will be charged for at the rate of \$1.00 net for each box. Additional or off standard knockouts can not be inserted unless drilling template accompanies order.

Drilling templates will be furnished gratis upon application.

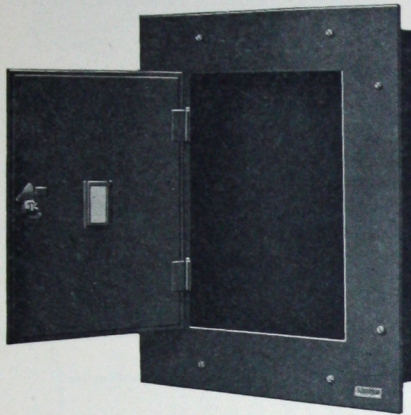
CUTOUT BOXES LISTED BELOW ARE MADE OF CODE GAUGE STEEL

Width Inches	Height Inches	DEPTH IN INCHES						Width Inches	Height Inches	DEPTH IN INCHES					
		4	4½	5	6	8	10	12		4½	5	6	8	10	12
6	11	\$ 1.75	\$ 1.85	\$ 2.05	\$ 2.20	\$ 2.95			24	\$13.10	\$13.45	\$14.50	\$17.55	\$19.15	\$20.65
6	12	1.70	1.75	2.10	2.60	3.05			24	14.65	15.20	16.10	19.45	21.20	22.80
6	16	2.05	2.20	2.30	3.05	3.75			24	16.15	16.70	17.75	21.45	23.40	25.10
6	8	1.35	1.60	1.70	2.10	2.35			24	17.65	18.35	19.10	23.45	25.45	27.30
8	8	1.55	1.75	1.90	2.25	2.75			24	30.50	31.55	33.15	41.40	44.30	47.65
8	10	1.70	2.00	2.05	2.50	3.15	\$ 3.55		24	35.00	36.15	37.80	43.65	45.10	48.70
8	12	2.00	2.15	2.30	2.95	3.50	4.05	\$ 4.30	30	19.70	20.30	21.25	24.95	26.25	28.25
8	15	2.30	2.40	2.70	3.35	4.05	4.75	\$ 5.20	30	21.50	22.10	23.25	27.15	27.55	30.85
8	18	2.65	2.90	3.00	3.65	4.70	5.45	5.95	30	37.00	38.75	39.80	43.75	46.25	49.25
9	9	1.85	2.00	2.05	2.50	3.15	3.70	4.10	30	41.10	42.05	43.15	48.55	51.65	54.55
9	12	2.10	2.35	2.40	3.05	3.75	4.40	4.80	30	45.25	46.25	47.35	53.45	56.85	60.05
9	15	2.40	2.65	2.95	3.55	4.40	5.00	5.50	30	49.15	50.45	51.55	58.35	61.95	65.45
9	16	2.50	2.80	3.05	3.60	4.55	5.30	5.80	30	64.85	66.35	69.75	81.10	85.95	90.75
9	18	2.90	3.15	3.35	3.90	4.90	5.80	6.30	30	72.05	73.75	77.55	90.05	95.35	100.45
9	20	3.15	3.35	3.50	4.20	5.30	6.25	6.90	30	76.85	78.70	82.60	96.10	101.75	107.85
9	24	3.60	3.75	4.05	4.85	6.15	7.25	7.80	30	86.35	88.65	92.75	108.05	114.35	120.80
9	28	6.10	6.50	6.75	7.50	9.40	10.00	11.60	36	45.00	46.15	47.25	53.60	57.00	60.05
9	32	6.85	7.50	7.55	8.45	10.40	11.65	12.85	36	60.85	62.25	65.35	76.05	80.65	85.00
9	36	7.60	7.90	8.35	9.25	11.50	12.90	14.15	36	69.25	70.95	74.30	86.55	91.65	96.80
10	10	2.00	2.15	2.30	2.90	3.65	4.20	4.50	36	77.65	79.55	83.35	97.15	102.75	108.80
10	12	2.20	2.40	2.55	3.30	4.10	4.55	5.30	36	86.25	88.70	92.95	108.00	114.25	121.05
10	15	2.70	2.85	2.70	3.75	4.60	5.40	5.90	36	94.90	97.30	102.05	118.70	125.70	133.00
10	18	2.95	3.00	3.20	4.25	5.25	6.15	6.70	36	103.45	106.15	111.25	129.45	137.25	145.10
10	20	3.55	3.80	4.05	4.70	5.55	6.30	7.10	36	112.25	115.15	120.85	140.45	140.75	157.25
10	24	4.10	4.45	4.70	5.35	6.50	7.35	8.00	36	120.75	123.85	129.85	151.05	160.00	168.80
10	28	6.60	6.85	6.90	8.05	9.90	10.75	12.25	42	70.75	72.65	76.15	88.45	93.95	99.25
10	32	7.30	7.85	8.10	8.95	10.70	12.35	13.50	42	80.85	82.95	86.85	101.05	107.15	113.15
10	36	8.15	8.55	8.80	10.00	12.15	13.65	15.00	42	90.70	93.05	97.50	113.45	120.25	127.00
12	12	2.75	3.05	3.30	3.70	4.45	4.90	5.55	42	100.65	103.15	108.15	126.10	133.45	141.05
12	16	3.05	3.60	4.00	4.40	5.40	6.05	6.55	42	110.75	113.45	119.05	138.45	146.75	155.05
12	18	3.60	3.90	4.25	4.85	5.80	6.55	7.05	42	120.75	123.85	129.85	151.05	160.00	169.10
12	20	3.90	4.30	4.40	5.10	6.35	7.10	7.80	42	131.15	134.45	141.05	161.10	174.00	183.60
12	24	4.55	5.40	5.60	5.80	7.25	8.15	8.85	42	141.00	144.75	151.85	176.45	187.00	197.40
12	28	7.40	7.85	8.15	9.95	11.10	12.15	13.45	42	151.25	154.85	162.45	189.05	200.10	211.75
12	32	8.35	8.45	9.00	10.90	12.25	13.65	14.85	42	161.25	165.45	173.45	201.85	213.95	226.05
12	36	9.20	9.60	10.10	11.40	13.55	15.00	16.50	48	92.35	94.55	98.45	115.35	122.25	129.25
12	40	10.10	10.55	10.90	11.95	14.50	16.35	18.00	48	103.45	106.05	111.25	129.35	137.15	145.00
16	15	3.85	4.20	4.50	5.15	6.25	6.85	7.65	48	115.25	118.15	123.75	144.05	152.75	161.15
16	18	4.50	4.85	5.15	5.70	7.10	7.85	8.55	48	126.55	129.85	136.15	158.25	167.75	177.25
16	20	4.80	5.00	5.55	6.05	7.70	8.35	9.25	48	138.45	141.75	148.85	173.05	184.35	193.75
16	24	5.35	5.75	6.10	6.85	8.45	9.25	10.10	48	149.65	153.15	160.75	187.05	198.35	209.50
16	28	9.15	9.60	9.90	10.75	13.30	14.50	15.75	48	161.35	165.35	173.55	201.75	213.65	226.05
16	32	10.15	10.70	11.05	12.05	14.70	16.10	17.55	48	172.35	176.75	186.25	215.50	228.55	241.85
16	36	11.40	11.75	12.45	13.20	15.40	17.85	19.20	48	184.10	188.45	197.75	230.05	243.75	256.85
16	40	12.45	12.60	13.40	14.45	17.75	19.40	21.10	54	116.75	119.60	125.50	146.05	154.65	163.45
18	18	5.00	5.40	5.55	6.15	7.70	8.55	9.25	54	129.45	132.75	139.25	162.05	171.75	181.45
18	20	5.45	5.85	6.05	6.65	8.30	9.10	10.15	54	142.15	145.85	153.05	178.00	183.65	199.35
18	24	8.80	9.20	9.50	10.45	12.60	13.90	15.50	54	155.25	159.05	166.75	194.05	205.60	217.25
18	28	10.10	10.40	10.75	11.80	14.25	15.30	17.10	54	168.00	172.35	180.75	210.05	222.55	235.35
18	32	11.20	11.65	12.10	13.00	15.85	17.50	18.85	54	180.45	184.55	193.45	225.05	238.55	252.00
18	36	12.40	12.85	13.30	14.35	17.55	19.15	20.70	54	204.05	209.05	219.40	254.95	270.15	285.75
18	40	13.60	12.15	14.55	15.70	19.25	20.90	22.25	60	142.05	145.55	152.75	177.45	188.25	198.75
21	21	8.85	9.40	9.65	10.45	12.85	14.00	15.65	60	155.75	159.75	167.75	195.05	206.75	208.15
21	24	9.90	10.30	10.75	11.65	13.75	15.55	16.75	60	172.05	176.25	185.05	215.10	228.05	241.05
21	28	11.45	11.80	12.15	13.05	16.05	17.45	18.80	60	184.55	189.15	198.45	231.15	244.85	258.35
21	32	12.70	13.15	13.65	14.70	17.75	19.40	20.85	60	200.05	205.05	214.80	250.10	264.90	279.95
21	36	13.15	14.50	15.05	16.00	19.60	21.20	23.05	60	214.05	219.45	230.00	258.75	283.75	299.50
21	40	15.50	16.10	16.30	17.50	21.35	23.20	24.95	60	228.05	233.95	244.90	285.00	302.05	318.90
24	24	11.20	11.45	11.90	12.90	15.60	17.00	18.45							



## Flush or Surface Cabinets

### Type NL



Type NL cabinets can be furnished in either flush or surface types. They are made of finely finished steel, solidly built and the entire cabinet is second to none in appearance. Every box is inspected and bears the Underwriters' label.

Cabinets are regularly equipped with a vault handle. A suitable lock with two keys will be furnished for \$2.50 each list extra. Each cabinet has a single row of  $\frac{1}{2}$ " conduit knockouts, spaced for  $\frac{3}{4}$ " conduit in each of its four sides. Any additional knockouts or knockouts other than standard will be charged for at the rate of \$1.00 net for each cabinet. Additional or off standard knockouts can not be inserted unless drilling template accompanies order.

Drilling templates will be furnished gratis upon application.

NL CABINETS LISTED BELOW ARE MADE OF CODE GAUGE STEEL

Width Inches	Height Inches	DEPTH IN INCHES						Width Inches	Height Inches	DEPTH IN INCHES					
		4½	5	6	8	10	12			4½	5	6	8	10	12
9	12	\$ 5.25	\$ 5.45	\$ 5.85	\$ 6.90	\$ 7.40	\$ 7.90	24	42	\$39.80	\$41.15	\$43.60	\$52.50	\$56.65	\$ 61.15
9	15	5.85	6.15	6.60	7.95	8.50	9.05	24	48	46.40	47.95	50.65	61.25	63.50	68.65
9	16	5.95	6.20	6.95	8.15	8.75	9.35	30	28	28.60	29.40	31.00	33.00	35.30	37.75
9	18	7.05	7.20	7.80	8.85	9.45	9.80	30	32	31.55	32.80	34.50	36.70	39.00	41.45
9	20	7.05	7.30	8.30	9.35	9.65	10.60	30	36	43.55	45.35	47.00	50.35	53.05	56.70
9	24	8.45	8.75	9.05	9.75	11.15	12.20	30	40	47.05	49.25	51.30	53.85	57.55	61.50
9	28	11.75	12.30	13.50	14.35	15.80	17.45	30	44	51.75	53.45	55.65	57.45	61.55	65.55
9	32	13.10	13.70	14.95	15.80	17.80	19.30	30	48	55.65	57.75	59.85	62.85	66.85	71.35
9	36	14.55	15.20	15.55	17.40	19.85	21.30	30	54	74.45	76.05	79.95	93.85	97.15	100.35
10	10	5.10	5.35	5.75	6.70	7.30	7.65	30	60	82.90	84.70	90.05	104.45	108.05	111.65
10	12	5.80	6.15	6.60	7.40	7.80	8.85	30	66	88.35	90.35	96.05	112.75	115.35	119.05
10	15	6.05	6.45	7.05	8.25	9.05	9.10	30	72	99.45	102.85	108.05	125.65	129.55	133.75
10	18	6.85	7.25	8.35	9.20	9.40	10.40	36	36	50.45	52.15	54.75	58.55	62.75	66.65
10	20	7.55	8.00	8.55	9.20	10.20	11.25	36	42	69.85	71.35	76.05	88.15	91.15	94.25
10	24	8.55	8.65	9.45	10.65	11.80	12.95	36	48	79.65	81.35	86.55	100.45	103.85	107.45
10	28	12.50	13.10	14.30	15.15	16.70	18.20	36	54	89.35	91.25	97.00	112.45	116.45	120.35
10	32	14.15	14.70	16.45	17.15	18.75	20.55	36	60	98.45	101.55	108.00	125.45	129.55	134.05
10	36	15.45	16.25	18.50	19.00	20.70	22.80	36	66	113.45	115.95	123.35	130.75	148.00	152.95
12	12	6.15	6.45	7.20	7.95	8.45	8.95	36	72	119.15	121.85	129.65	150.25	155.45	160.65
12	16	7.45	7.90	8.55	8.80	9.70	12.40	36	78	129.15	132.05	140.45	162.95	168.45	174.15
12	18	7.95	8.25	9.20	9.50	10.50	11.50	36	84	138.65	141.75	151.05	175.25	181.25	187.25
12	20	8.45	8.70	9.20	10.30	11.40	12.50	42	42	80.80	82.60	87.95	102.35	106.00	109.55
12	24	9.20	9.60	10.55	11.45	13.10	14.35	42	48	92.95	94.85	100.55	116.05	120.05	124.05
12	28	14.15	14.80	15.95	16.90	18.65	20.20	42	54	104.25	106.45	113.55	131.85	136.45	140.85
12	32	15.90	16.40	17.75	18.95	20.75	22.55	42	60	115.95	118.45	126.05	146.15	151.25	156.20
12	36	17.50	18.10	19.45	21.05	23.20	24.90	42	66	127.45	130.15	138.45	160.85	166.05	171.55
12	40	19.30	19.80	21.25	23.25	25.45	27.55	42	72	138.75	141.75	151.10	175.00	181.20	187.15
15	15	8.35	8.55	9.10	10.10	11.30	11.25	42	78	150.85	154.25	164.05	190.25	196.85	202.45
16	18	9.00	9.75	10.15	11.40	12.55	13.75	42	84	161.05	164.40	175.05	202.95	210.05	216.90
16	20	9.75	10.10	10.95	12.45	13.60	15.80	42	90	172.00	175.90	187.05	206.75	224.55	231.75
16	24	10.55	11.15	12.10	13.65	14.95	15.80	42	96	183.15	187.25	198.95	231.05	238.90	246.85
16	28	17.25	17.85	19.25	20.50	22.20	24.35	48	48	106.35	108.45	115.55	134.05	138.75	144.15
16	32	19.40	20.05	21.50	22.90	24.90	26.75	48	54	118.15	120.85	128.65	149.25	154.45	159.65
16	36	21.65	22.25	23.80	25.40	28.65	29.20	48	60	131.75	134.15	142.45	164.85	170.05	175.55
16	40	23.70	24.35	26.00	27.35	30.25	31.50	48	66	144.85	148.95	159.05	182.05	189.15	194.15
18	18	9.80	10.15	11.10	12.45	13.70	14.95	48	72	155.85	159.25	169.05	195.25	201.85	207.45
18	20	10.55	10.90	11.90	13.40	14.70	15.95	48	78	170.45	173.75	185.00	204.75	222.55	229.75
18	24	16.75	17.35	18.70	19.80	21.45	23.25	48	84	183.15	187.25	199.05	231.05	239.05	246.85
18	28	18.85	19.40	20.85	22.40	24.20	25.90	48	90	197.45	201.75	214.75	249.00	253.75	266.15
18	32	29.20	21.80	23.15	24.80	26.80	28.60	48	96	210.85	215.05	229.05	265.85	274.85	284.00
18	36	23.50	24.15	25.45	27.45	29.55	31.40	54	54	133.75	136.05	144.35	166.75	172.00	177.45
18	40	25.70	26.30	27.60	29.95	32.15	34.10	54	60	145.85	149.95	160.05	183.05	190.15	195.15
21	21	13.45	13.90	14.90	16.75	18.05	19.45	54	66	162.05	165.40	176.05	204.05	211.05	218.05
21	24	18.80	19.40	20.85	22.40	24.20	25.90	54	72	177.05	180.75	192.05	211.75	229.55	236.75
21	28	21.45	22.20	23.55	25.05	27.05	29.05	54	78	191.05	196.05	208.05	240.05	247.90	255.85
21	32	23.90	24.80	26.05	27.55	29.75	31.95	54	84	206.75	211.05	225.05	261.75	270.75	280.05
21	36	26.45	27.50	28.75	30.25	32.60	35.00	54	96	236.00	241.75	257.05	298.05	308.05	318.00
21	40	28.90	30.20	31.70	32.80	35.30	37.80	60	60	161.75	165.15	175.00	201.15	207.75	214.35
24	24	20.95	22.00	23.10	24.45	26.30	28.25	60	66	179.15	183.25	195.05	227.00	235.05	242.85
24	28	23.65	24.35	25.90	27.55	29.65	32.10	60	72	197.45	201.75	214.75	249.00	253.75	266.15
24	32	26.45	26.85	28.85	30.80	33.20	35.40	60	78	211.85	217.05	231.05	267.85	276.85	286.00
24	36	29.15	29.20	31.65	34.90	36.50	39.85	60	84	230.00	235.75	251.00	291.95	301.90	312.00
24	40	31.90	31.70	34.60	37.25	40.00	42.50	60	90	246.05	250.85	267.05	310.05	320.75	332.05
24	40	31.90	31.70	34.60	37.25	40.00	42.50	60	96	262.25	268.00	285.05	330.75	342.05	355.75

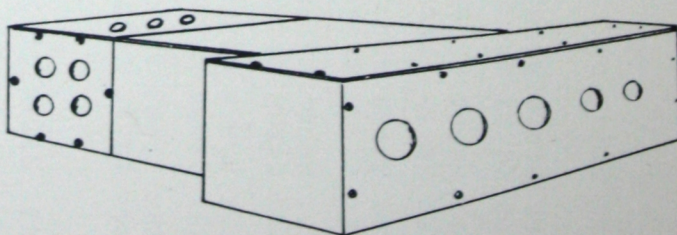
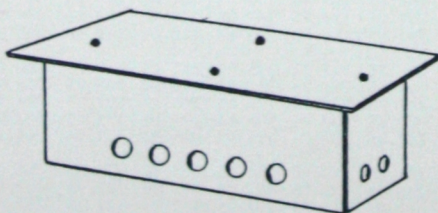
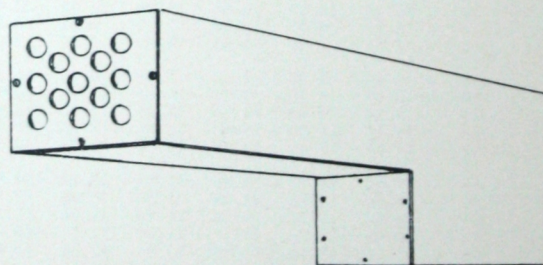
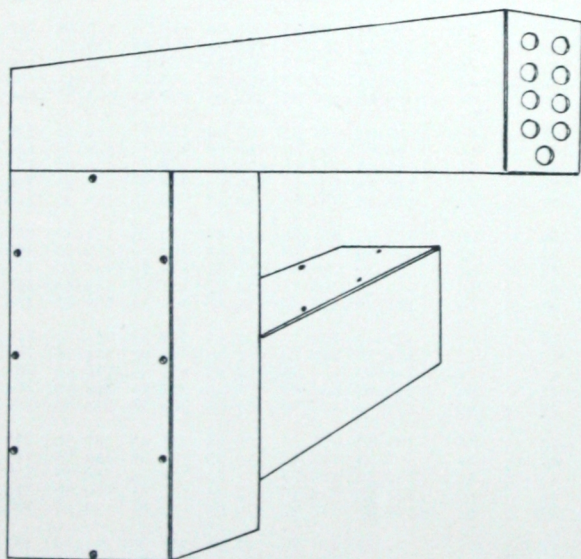
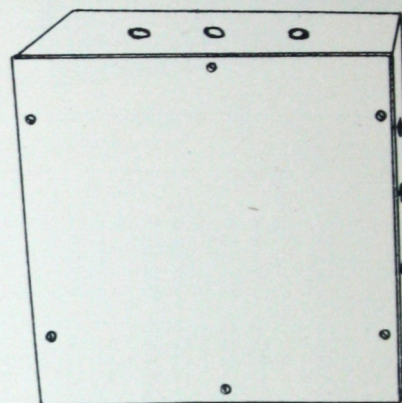
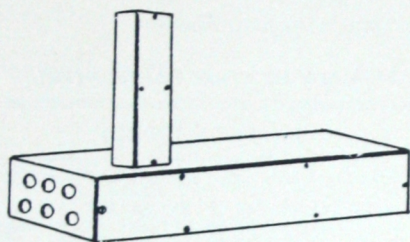
FLUSH TYPE CABINETS ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED



## Special Pull Boxes of All Sizes and Shapes

On large buildings, power plants, sub-stations, mills and factories, it is often convenient to use pull boxes of such shape as will conform with the building construction. This eliminates fittings, ells, and many difficult conduit bends. At the same time a custom built pull box will make the installation of the wires much easier.

Prices on special boxes will be promptly given upon receipt of detailed information as to gauge of metal, width, height, angle of bends, etc.







## Pull Boxes with Screw Covers

Specify whether for flush or surface mounting.  
These Pull Boxes can be built in larger sizes than listed.

### Cold Gauge Steel

Width Inches	Height Inches	DEPTH IN INCHES					
		4½	5	6	8	10	12
9	12	\$ 4.65	\$ 4.90	\$ 6.05	\$ 7.65	\$ 8.75	\$10.15
9	15	5.15	5.60	6.70	8.50	9.55	10.75
9	16	5.30	5.65	6.95	8.70	9.90	11.05
9	18	5.90	6.20	7.55	9.45	10.95	12.15
9	20	6.25	6.75	8.05	10.25	11.75	13.15
9	24	7.00	7.65	9.20	11.35	13.65	15.15
9	28	9.00	9.45	10.55	13.05	14.30	16.15
9	32	10.45	10.70	11.80	14.55	16.45	18.15
9	36	11.55	11.70	12.85	16.15	18.05	19.75
10	10	4.25	4.50	5.55	6.80	7.95	8.70
10	12	4.60	4.90	6.15	7.65	8.70	9.90
10	15	5.55	5.95	7.10	8.90	11.10	11.25
10	18	5.80	6.15	7.90	10.05	11.55	12.75
10	20	7.85	8.90	8.95	10.75	12.10	13.45
10	24	8.35	9.00	10.05	12.40	13.80	15.35
10	28	9.70	9.95	11.35	13.95	15.15	17.15
10	32	10.90	11.25	12.55	14.90	17.15	19.00
10	36	12.00	12.35	13.85	17.05	19.00	21.05
12	12	5.85	6.30	7.15	8.40	9.45	10.50
12	16	7.00	7.45	8.40	10.25	11.35	12.65
12	18	7.45	8.15	9.10	10.85	12.30	13.45
12	20	8.30	8.90	9.85	11.90	13.45	14.80
12	24	9.55	10.05	11.00	13.80	15.35	16.85
12	28	10.95	11.45	12.65	15.55	17.15	18.95
12	32	12.15	12.75	13.80	17.25	19.15	20.80
12	36	13.45	14.05	15.25	19.00	21.05	22.80
12	40	14.85	15.45	16.75	21.15	22.95	25.15
16	15	8.20	8.65	9.75	11.75	13.15	14.55
16	18	9.30	9.85	10.85	13.45	14.85	16.35
16	20	10.00	10.60	11.55	14.50	15.85	17.45
16	24	11.05	11.75	12.95	15.95	17.65	19.35
16	28	13.35	13.85	15.05	18.45	20.20	22.05
16	32	14.95	15.55	16.85	20.65	22.65	24.55
16	36	16.45	17.55	18.45	21.55	24.95	26.85
16	40	18.25	18.80	20.25	24.95	27.25	28.15
18	18	10.10	10.70	11.85	14.30	16.15	17.55
18	20	11.10	11.65	12.75	15.75	17.45	19.00
18	24	12.75	13.35	14.55	17.55	19.45	20.55
18	28	14.70	15.00	16.50	19.75	20.45	23.85
18	32	16.45	16.95	18.25	22.25	24.45	26.55
18	36	18.00	18.75	20.05	24.45	26.85	28.85
18	40	19.85	20.45	21.95	26.95	29.35	31.15
21	21	13.00	13.50	14.65	17.85	19.55	22.05
21	24	14.55	14.95	16.35	19.25	21.65	23.55
21	28	16.65	17.00	18.30	22.45	22.55	26.35
21	32	18.40	19.55	20.55	24.75	27.15	29.15
21	36	20.55	21.05	22.50	27.45	29.85	32.45
21	40	22.45	23.95	24.55	29.85	32.45	34.85
24	24	16.05	16.75	18.05	21.75	24.95	25.80
24	28	18.35	18.85	20.25	24.65	26.75	28.95
24	32	20.45	21.15	22.55	27.15	29.85	32.00
24	36	22.75	23.45	24.95	29.95	32.85	35.25
24	40	24.75	25.65	26.75	32.95	35.55	38.35
24	42	30.60	31.55	33.15	41.40	44.30	47.65
24	48	35.00	36.10	37.80	43.65	45.10	48.70
30	24	19.45	20.15	21.45	25.85	28.65	29.45
30	28	22.05	22.75	24.10	29.35	30.85	33.95
30	32	24.65	25.45	27.05	32.35	32.95	37.45
30	36	34.05	35.75	36.75	40.85	43.50	46.25
30	40	38.15	39.05	40.25	45.55	48.65	51.55
30	44	42.15	43.25	44.35	50.45	53.85	57.15
30	48	46.15	47.35	48.45	55.35	58.95	63.70
36	36	43.15	43.25	44.35	50.55	54.05	57.05
36	40	46.25	47.40	48.45	55.35	58.85	63.45
36	44						
36	48						

### No. 10 Gauge Steel

Width Inches	Height Inches	DEPTH IN INCHES					
		4½	5	6	8	10	12
9	12	\$ 6.30	\$ 6.70	\$ 8.20	\$10.40	\$11.90	\$13.75
9	15	7.00	7.65	9.15	11.65	13.05	14.65
9	16	7.25	7.70	9.45	11.85	13.55	15.10
9	18	7.85	8.15	9.90	12.50	14.50	15.95
9	20	8.15	8.75	10.50	13.15	15.40	17.00
9	24	8.65	9.15	10.95	14.15	16.45	18.15
9	28	12.30	12.95	14.40	17.80	19.15	21.95
9	32	14.05	14.30	15.80	19.70	22.15	24.50
9	36	15.15	15.95	17.50	21.95	24.55	27.05
10	10	5.85	6.40	8.15	9.95	11.35	12.45
10	12	6.20	6.60	8.35	11.45	11.95	13.55
10	15	7.55	7.90	9.70	12.20	14.00	15.50
10	18	7.75	8.25	10.75	13.65	15.75	17.45
10	20	9.95	10.80	12.25	14.85	16.65	18.50
10	24	11.40	12.35	13.85	17.00	18.95	21.00
10	28	13.25	14.65	15.35	18.95	20.45	23.00
10	32	14.95	15.30	17.05	20.25	23.05	25.75
10	36	16.35	16.80	18.95	23.25	25.90	28.80
12	12	7.75	8.50	9.65	11.40	12.85	14.25
12	16	9.20	9.95	11.15	13.45	15.05	16.60
12	18	9.85	10.70	12.05	14.55	16.30	17.70
12	20	10.50	11.25	12.30	15.15	16.85	18.65
12	24	12.05	12.65	14.15	17.50	19.45	20.35
12	28	14.75	15.60	17.00	21.05	23.15	25.60
12	32	16.35	17.25	18.85	23.45	25.90	28.25
12	36	18.35	19.05	20.80	25.90	28.45	31.25
12	40	20.25	20.90	22.75	27.40	31.15	34.00
16	15	10.60	11.35	12.80	15.45	17.20	18.85
16	18	11.70	12.55	13.75	16.85	18.75	20.65
16	20	12.70	13.50	14.70	18.30	20.15	22.15
16	24	14.00	14.70	16.35	20.15	22.05	24.15
16	28	18.40	18.80	20.45	25.25	27.65	30.00
16	32	20.35	21.05	22.75	28.05	30.65	33.25
16	36	22.35	23.65	25.10	29.45	33.75	33.75
16	40	24.00	25.45	27.35	33.85	36.90	40.05
18	18	12.80	13.60	15.05	18.25	20.35	22.15
18	20	13.95	14.65	16.15	19.85	22.05	24.05
18	24	17.35	16.20	19.75	24.50	26.30	29.45
18	28	19.75	20.65	22.25	27.35	29.25	32.25
18	32	22.25	23.05	24.75	30.25	33.25	35.95
18	36	24.45	25.25	27.15	33.15	36.45	39.35
18	40	26.95	27.75	29.65	36.55	39.85	42.15
21	21	17.65	18.35	20.85	24.45	26.55	29.75
21	24	19.70	20.45	22.15	26.15	29.40	31.95
21	28	22.35	23.15	24.75	30.15	33.15	35.75
21	32	25.05	25.95	28.05	33.75	36.75	39.55
21	36	27.85	28.55	30.65	37.25	40.55	44.05
21	40	30.85	31.00	33.35	40.55	43.95	47.40
24	24	21.95	22.75	24.35	29.65	32.35	35.35
24	28	24.95	25.70	27.45	33.35	36.55	39.45
24	32	27.75	28.80	30.55	37.05	40.35	43.45
24	36	30.65	31.75	33.75	40.85	44.25	48.05
24	40	33.70	34.45	36.15	44.75	48.25	52.05
24	42	38.15	39.25	41.35	51.75	55.45	59.65
24	48	43.95	45.05	47.15	54.55	56.35	60.85
30	24	26.35	27.15	29.00	35.15	38.55	40.45
30	28	29.95	31.05	32.85	39.85	42.25	46.25
30	32	33.35	34.45	36.55	44.00	44.65	51.00
30	35	42.55	44.75	45.25	50.95	54.45	57.75
30	40	47.65	48.75	50.20	57.05	60.65	64.45
30	44	52.75	53.85	55.45	63.15	67.25	71.35
30	48	57.65	58.25	60.50	69.25	73.55	79.35
36	36	53.95	53.85	55.55	63.00	67.45	71.35
36	40	57.75	59.00	60.65	69.25	73.55	79.35
36	44	61.55	63.45	66.05	76.25	81.05	86.75
36	48	66.15	67.95	71.35	83.45	88.75	93.85

Pull boxes with screw covers are not furnished with standard knockouts. They will, however, be furnished with knockouts to your specification, if drilling template accompanies order at no additional charge.

**FLUSH TYPE BOXES ARE ALWAYS SUPPLIED UNLESS OTHERWISE SPECIFIED**



## Ebony Asbestos Wood and Transite Asbestos Wood

We carry a complete stock of Ebony Asbestos Wood and Transite Asbestos Wood in Canton and are prepared to furnish both full sized stock sheets and sheets cut to your specifications. This material is manufactured by the Johns-Manville Company and is not to be compared with any of the inferior materials of a similar description now on the market.

It can be fastened with nails or screws, takes any kind of a wood finish, and yet successfully withstands the most severe fire tests and changes of temperature. It will not warp or become distorted or weaken in service. In fact, it actually becomes tougher with age. Supplied in sheets 36 x 48 inches, 42 x 48 inches and 42 x 96 inches, in various thicknesses from  $\frac{1}{8}$  inch to 2 inches.



### Some of the Electrical Uses of Transite Asbestos Wood

- |   |   |
|---|---|
| Bases and floors about switchboards.                | Resistance boxes.                             |
| Washers to separate bus rings.                      | Charging rheostats.                           |
| Troughs about wires.                                | Equalizer bases.                              |
| Lightning arrester boxes.                           | Fuse boxes.                                   |
| Switch barriers.                                    | Panelboard liners.                            |
| Shunt bases.  | Wattmeter bases.                              |
| Potential transformer boxes.                        | Barriers to separate units.                   |
| Frames for small boards.                            | Wire cleats, large and small.                 |
| Protection from magnetic blow-outs on railway cars. | Separation plates for street car controllers. |
|   | Electric elevator controls.                   |

### Transite Asbestos Wood

Transite Asbestos Wood is recommended for general electrical construction use and is most satisfactory where fire-proof, heat-resisting material is required and great dielectric strength is not necessary.

### Weights and List Prices of Flat Transite Asbestos Wood

Thickness	Weight per Square Foot	List Price per Square Foot	Thickness	Weight per Square Foot	List Price per Square Foot
$\frac{1}{8}$ "	1.7 lbs.	\$0.15	$\frac{3}{4}$ "	7.6 lbs.	\$0.90
$\frac{3}{16}$ "	2.1 "	.22 $\frac{1}{2}$	1"	10.1 "	1.20
$\frac{1}{4}$ "	2.8 "	.30	1 $\frac{1}{4}$ "	13.0 "	1.50
$\frac{5}{16}$ "	3.4 "	.38	1 $\frac{1}{2}$ "	15.7 "	1.80
$\frac{3}{8}$ "	4.0 "	.45	1 $\frac{3}{4}$ "	18.5 "	2.10
$\frac{1}{2}$ "	5.3 "	.60	2"	21.0 "	2.40

Prices on Cut Sheets of Transite and Asbestos Wood Quoted upon Application

To obtain net prices on material described above see discount sheet



## Ebony Asbestos Wood

Ebony Asbestos Wood is recommended for use as an insulating base for switchboards, bus bar barriers, switch bases, disconnect bases and other electrical uses too numerous to mention. It is a composition material made up of asbestos fibre and binding cements, densely impregnated under heat and pressed into a compound of very high dielectric strength.

Ebony Asbestos Wood possesses the least possible surface leakage, being affected neither by oil nor atmospheric moisture, nor will it rot or rust, even when exposed to the action of water, gas, oil, chemicals or ordinary acids. It is much lighter in weight than marble, slate or soapstone, and has more mechanical and dielectric strength than any of the other three materials.

The appearance of Ebony Asbestos Wood is very pleasing, since it is finished in a smooth surfaced, dull black that gives an appearance the same as black marine finished slate.

### Some Typical Uses for Ebony Asbestos Wood

Disconnecting switch bases for lightning arresters	Theatre pockets	Panels for switchboards	Exciter panels	Linings of cabinets
Primary fuse boxes	Theatre expansion plugs	Switch barriers	Converter panels	Mercury arc rectifier panels
Washers to separate bus rings	Theatre boxes and clusters	Faces for rheostats of all kinds	Barriers to separate units	Solenoid switches
Terminal blocks, motor and generator	Button switch boxes	Electric elevator controls	Wire cleats	Back connected switches
Back board controllers	Wattmeter bases	Shunt bases	Divider cleats	Cabinets
Charging rheostats	Ground, petticoat and line insulators	Fuse blocks	Bus bar supports	Small wire holders for instrument connections
	Lightning arrester boxes	Cabinets for distant control of oil switches	Resistance boxes	Dinkey controllers
			Distributing boards	

### Table of Comparative Physical Properties of Switchboard Materials

	B-V Marble	Slate	Soapstone	Johns-Manville Ebony Asbestos Wood
Weight per cubic foot.....	180 lbs.	180 lbs.	175 lbs.	121 lbs.
Dielectric strength one inch in thickness.....	65,000 V.	8,000 V.	25,000 V.	76,000 V.
Insulation resistance per one inch cube.....	170,000 meg.	25 meg.	250 meg.	4,000,000 meg.
Crushing strength per square inch.....	13,000 lbs.	10,000 lbs.	8,000 lbs.	15,000 lbs.
Transverse modulus of rupture in lbs. per sq. in....	890 lbs.	6,200 lbs.	1,300 lbs.	3,500 lbs.

NOTE:—The figures in this table are the values obtained by actual test, and care should be taken not to use the strengths given in construction, without a suitable factor of safety. The insulation resistance and puncturing voltage of slate, marble and soapstone are only approximate, since individual specimens of the same kind vary 500% among themselves.

The preceding table has been computed on the basis of tests made in the dry state and the materials are considered to have absorbed no moisture. The results would be different if figured on the basis of absorption, with the exception of soapstone and Johns-Manville Ebony Asbestos Wood, which are practically unaffected after immersion in water for any length of time. The result on marble and slate would be considerably reduced after immersion in water.

### Puncturing Voltage

Thickness	Puncturing Voltage Average	Thickness	Puncturing Voltage Average	Thickness	Puncturing Voltage Average	Thickness	Puncturing Voltage Average
1/8".....	12,900	1/2".....	37,000	3/4".....	54,000	1 1/4".....	80,500
1/4".....	25,500	5/8".....	43,000	1".....	66,000	1 1/2".....	85,000
3/8".....	30,500					2".....	96,000

### Weights and List Prices of Flat Ebony Asbestos Wood

This material is supplied in standard size sheets 36" x 48", 42" x 48" and 42" x 96" in the following thicknesses:

Thickness	Weight per Square Foot	List Price per Square Foot	Thickness	Weight per Square Foot	List Price per Square Foot
1/8"*	1.50 lbs.	\$0.90	3/4"	7.85 lbs.	\$2.50
3/16"	2.08 "	1.20	7/8"	9.00 "	2.65
1/4"	2.75 "	1.30	1"	10.35 "	2.80
5/16"	3.50 "	1.45	1 1/4"	12.85 "	3.10
3/8"	4.25 "	1.60	1 1/2"	15.00 "	3.65
1/2"	5.43 "	1.90	1 3/4"	17.80 "	3.95
5/8"	6.88 "	2.35	2"	20.65 "	6.20

\*Supplied only in sheets 36" x 48"

Prices on thicknesses above 2" on application

*Prices on Cut Sheets of Transite and Asbestos Wood Quoted on Application*  
To obtain net prices on material described above see discount sheet











